

Pantheon Report

Generated at 2019-10-03 22:37:08 (UTC).
Data path: GCE Iowa on `ens4` (*remote*) → GCE London on `ens4` (*local*).
Repeated the test of 24 congestion control schemes 5 times.
Each test lasted for 30 seconds running 1 flow.
NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

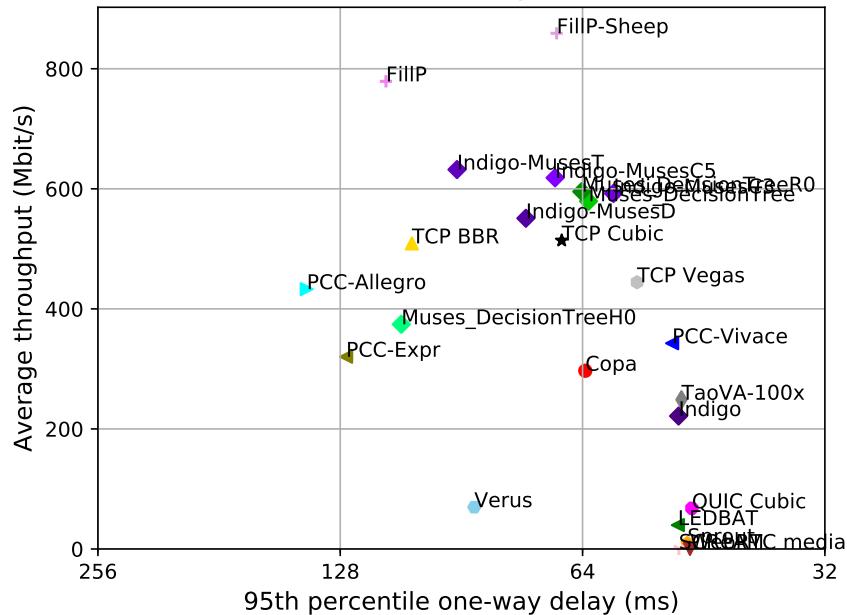
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

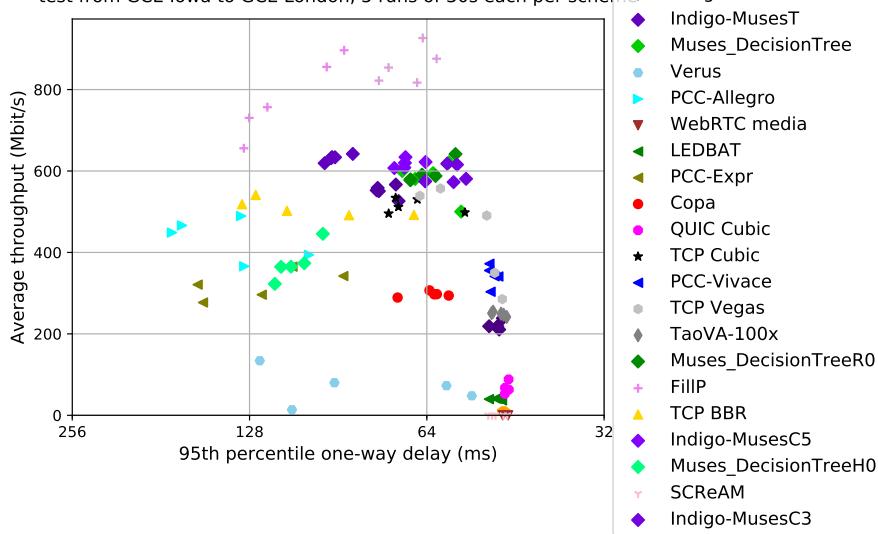
```
branch: muses @ de42328552b3776a75a932a94dfaf722537b0ec
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fc45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Iowa to GCE London, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa to GCE London. 5 runs of 30s each per scheme. Indigo-MusesD



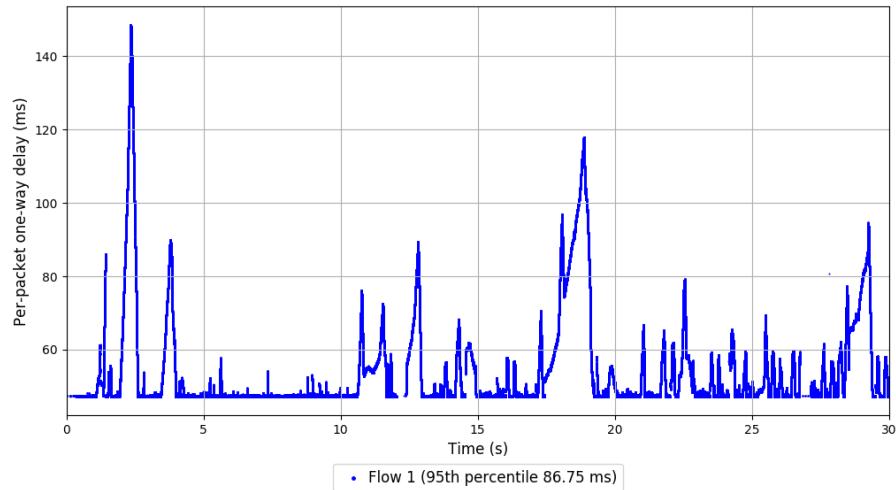
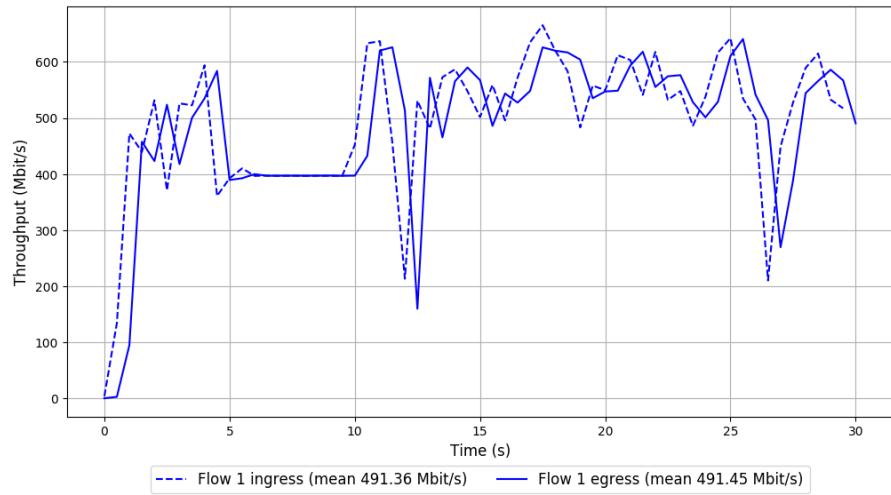
| scheme | # runs | mean avg tput (Mbit/s) flow 1 | mean 95th-%ile delay (ms) flow 1 | mean loss rate (%) flow 1 |
|----------------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR | 5 | 509.07 | 104.28 | 0.44 |
| Copa | 5 | 296.94 | 63.50 | 0.34 |
| TCP Cubic | 5 | 513.88 | 67.94 | 0.36 |
| FillP | 5 | 779.02 | 112.31 | 1.49 |
| FillP-Sheep | 5 | 859.07 | 68.92 | 0.41 |
| Indigo | 4 | 221.49 | 48.63 | 0.34 |
| Indigo-MusesC3 | 5 | 592.34 | 58.58 | 0.39 |
| Indigo-MusesC5 | 5 | 618.34 | 69.23 | 0.37 |
| Indigo-MusesD | 5 | 550.90 | 75.27 | 0.34 |
| Indigo-MusesT | 5 | 632.04 | 91.66 | 0.43 |
| LEDBAT | 5 | 39.83 | 48.74 | 0.53 |
| Muses_DecisionTree | 5 | 579.31 | 62.92 | 0.36 |
| Muses_DecisionTreeH0 | 5 | 374.31 | 107.48 | 0.39 |
| Muses_DecisionTreeR0 | 5 | 595.45 | 64.15 | 0.36 |
| PCC-Allegro | 5 | 432.87 | 140.87 | 2.33 |
| PCC-Expr | 5 | 320.22 | 125.88 | 1.38 |
| QUIC Cubic | 4 | 67.88 | 46.81 | 0.49 |
| SCReAM | 5 | 0.22 | 48.60 | 0.26 |
| Sprout | 5 | 9.67 | 47.42 | 0.33 |
| TaoVA-100x | 5 | 248.68 | 48.23 | 0.32 |
| TCP Vegas | 5 | 444.32 | 54.76 | 0.30 |
| Verus | 5 | 69.68 | 87.24 | 0.15 |
| PCC-Vivace | 5 | 342.74 | 49.54 | 0.38 |
| WebRTC media | 2 | 0.05 | 47.07 | 0.00 |

Run 1: Statistics of TCP BBR

```
Start at: 2019-10-03 17:31:50
End at: 2019-10-03 17:32:20
Local clock offset: -0.049 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-10-03 20:37:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 491.45 Mbit/s
95th percentile per-packet one-way delay: 86.748 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 491.45 Mbit/s
95th percentile per-packet one-way delay: 86.748 ms
Loss rate: 0.30%
```

Run 1: Report of TCP BBR — Data Link

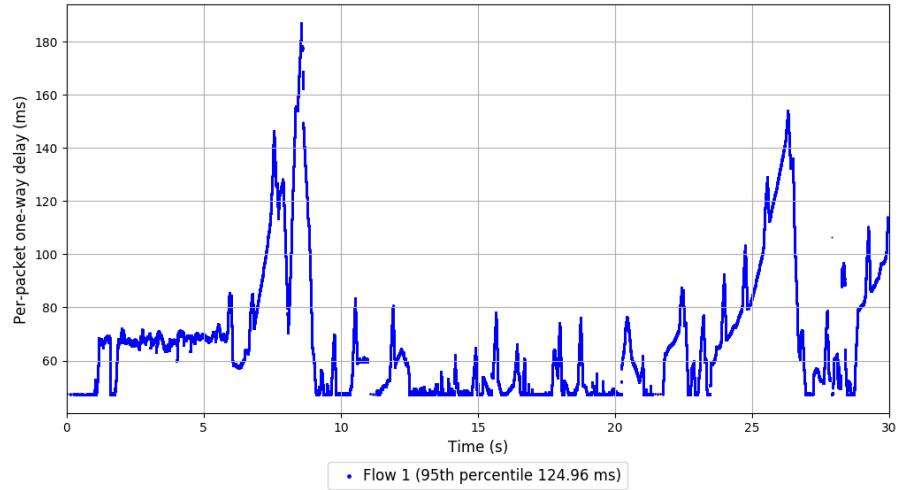
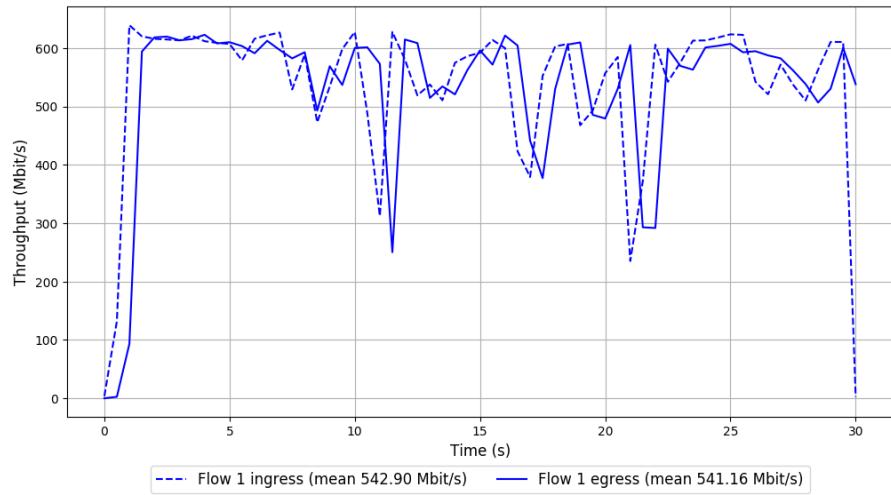


Run 2: Statistics of TCP BBR

```
Start at: 2019-10-03 18:06:33
End at: 2019-10-03 18:07:03
Local clock offset: -0.002 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-10-03 20:37:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 541.16 Mbit/s
95th percentile per-packet one-way delay: 124.959 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 541.16 Mbit/s
95th percentile per-packet one-way delay: 124.959 ms
Loss rate: 0.64%
```

Run 2: Report of TCP BBR — Data Link

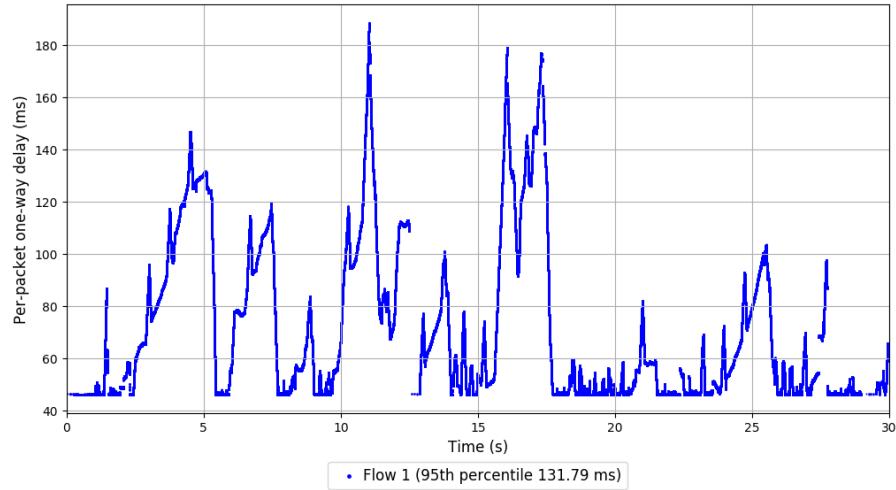
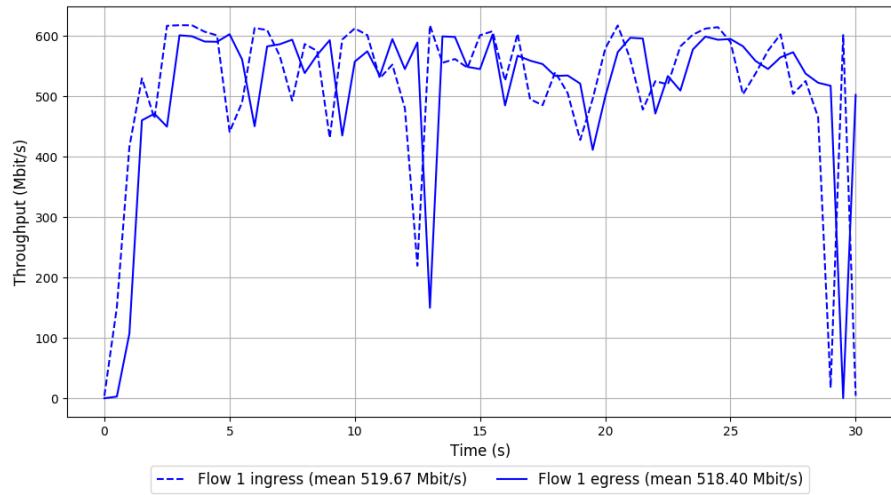


Run 3: Statistics of TCP BBR

```
Start at: 2019-10-03 18:41:25
End at: 2019-10-03 18:41:55
Local clock offset: -0.427 ms
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-10-03 20:37:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.40 Mbit/s
95th percentile per-packet one-way delay: 131.793 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 518.40 Mbit/s
95th percentile per-packet one-way delay: 131.793 ms
Loss rate: 0.56%
```

Run 3: Report of TCP BBR — Data Link

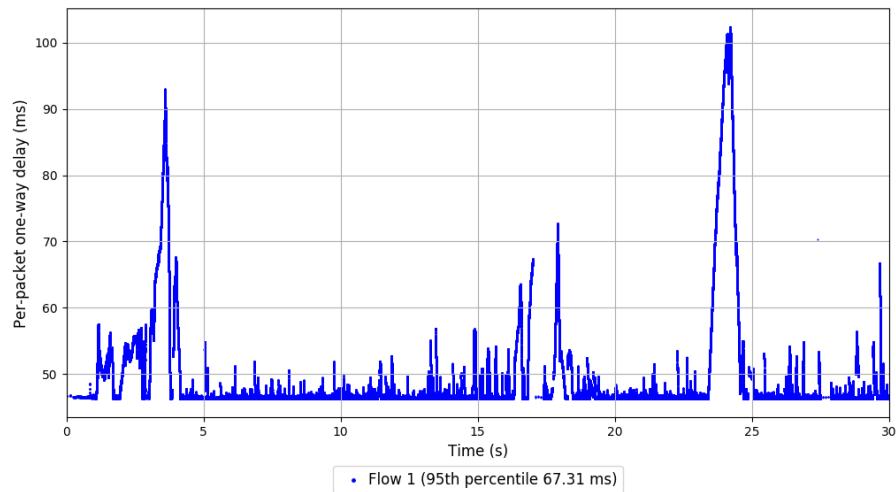
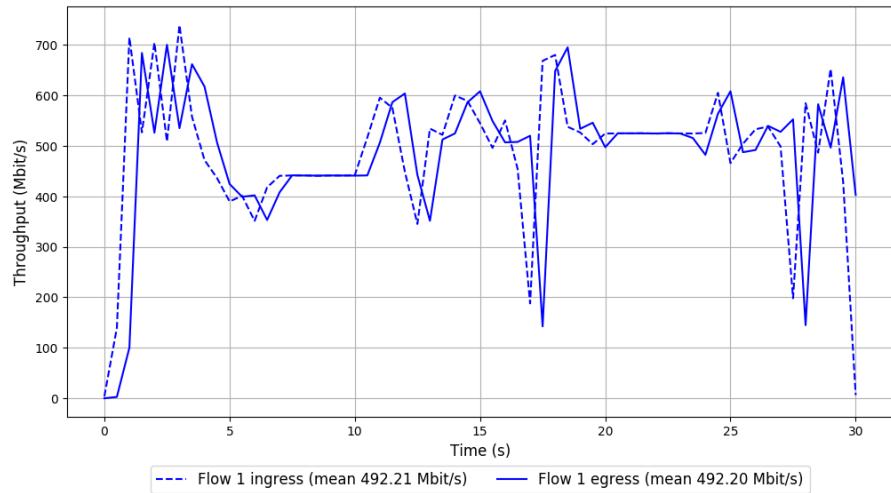


Run 4: Statistics of TCP BBR

```
Start at: 2019-10-03 19:16:29
End at: 2019-10-03 19:16:59
Local clock offset: -0.019 ms
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-03 20:37:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.20 Mbit/s
95th percentile per-packet one-way delay: 67.310 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 492.20 Mbit/s
95th percentile per-packet one-way delay: 67.310 ms
Loss rate: 0.32%
```

Run 4: Report of TCP BBR — Data Link

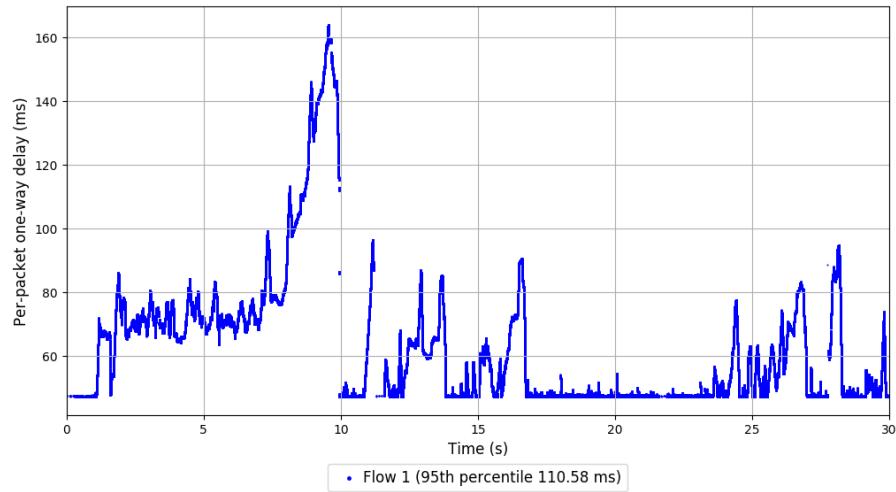
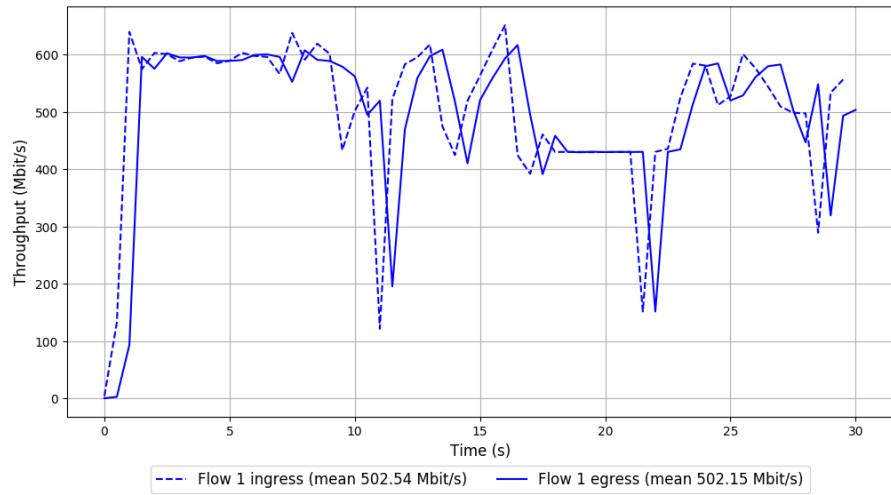


Run 5: Statistics of TCP BBR

```
Start at: 2019-10-03 19:51:28
End at: 2019-10-03 19:51:58
Local clock offset: -0.008 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-10-03 20:37:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 502.15 Mbit/s
95th percentile per-packet one-way delay: 110.575 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 502.15 Mbit/s
95th percentile per-packet one-way delay: 110.575 ms
Loss rate: 0.39%
```

Run 5: Report of TCP BBR — Data Link

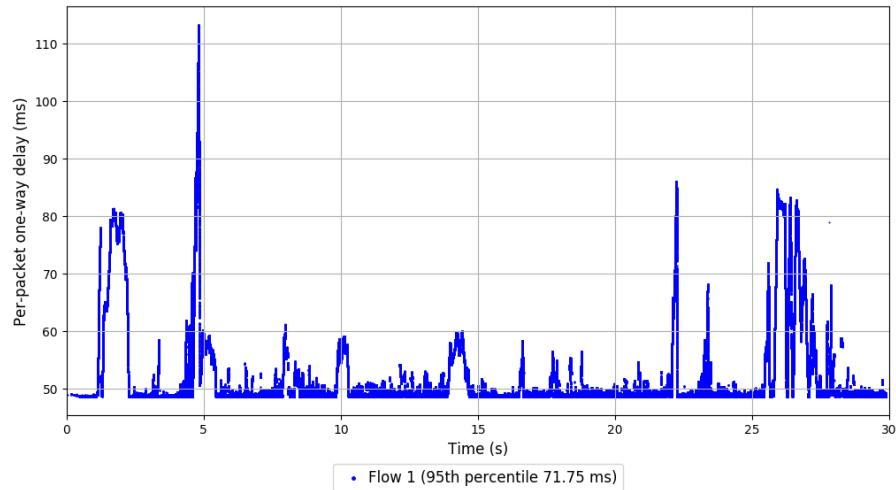
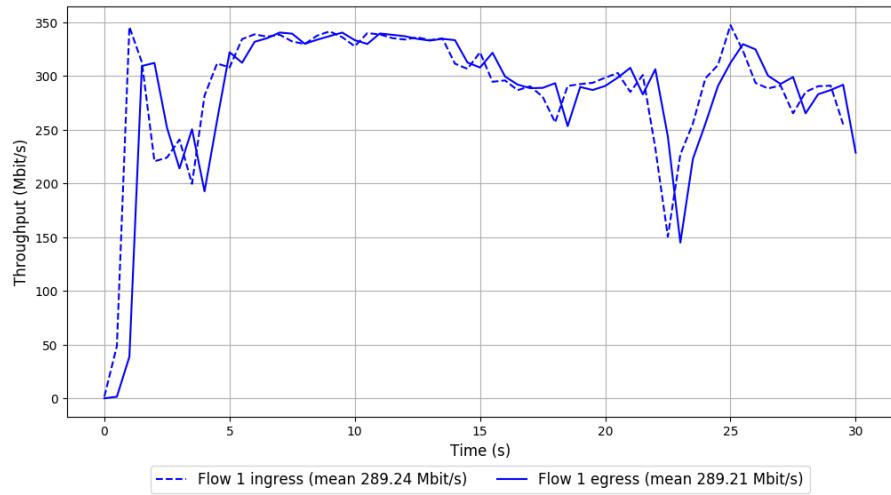


Run 1: Statistics of Copa

```
Start at: 2019-10-03 17:42:14
End at: 2019-10-03 17:42:44
Local clock offset: 0.008 ms
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-10-03 20:37:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.21 Mbit/s
95th percentile per-packet one-way delay: 71.750 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 289.21 Mbit/s
95th percentile per-packet one-way delay: 71.750 ms
Loss rate: 0.33%
```

Run 1: Report of Copa — Data Link

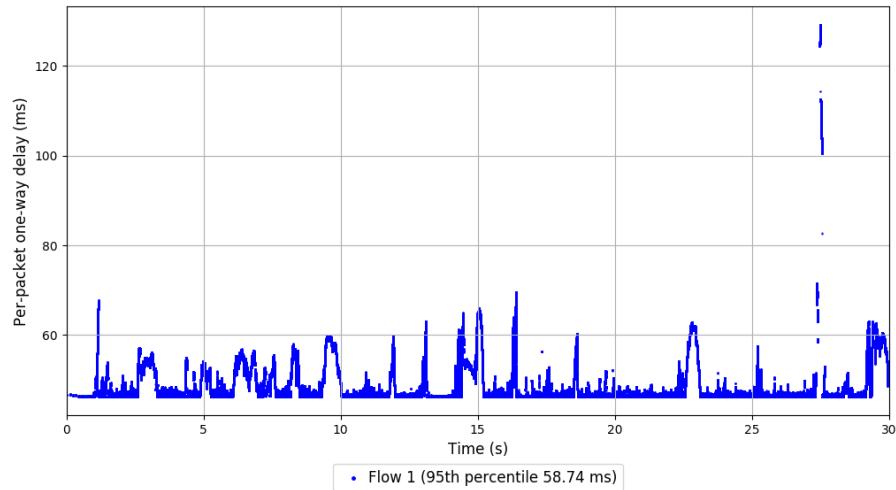
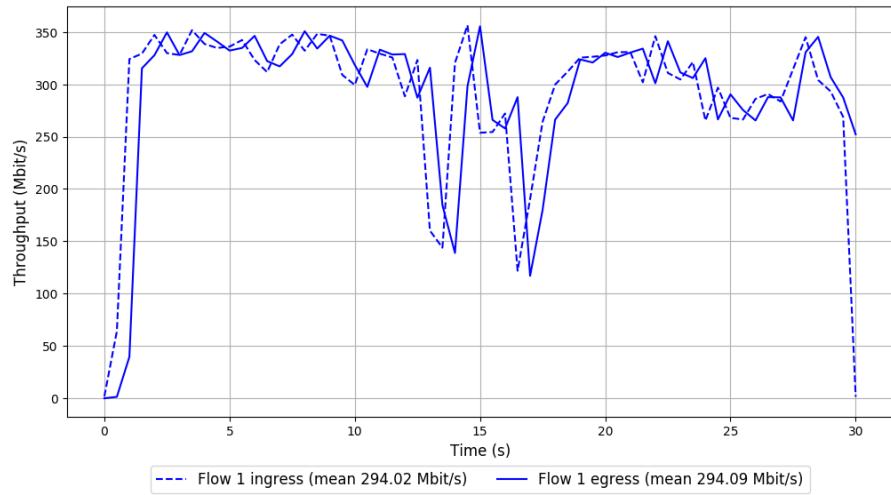


Run 2: Statistics of Copa

```
Start at: 2019-10-03 18:17:11
End at: 2019-10-03 18:17:41
Local clock offset: -0.066 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-10-03 20:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.09 Mbit/s
95th percentile per-packet one-way delay: 58.745 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 294.09 Mbit/s
95th percentile per-packet one-way delay: 58.745 ms
Loss rate: 0.29%
```

Run 2: Report of Copa — Data Link

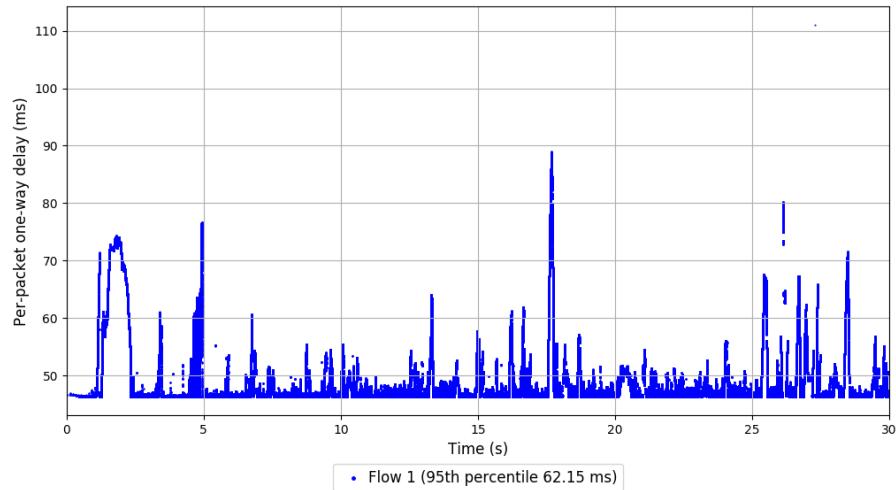
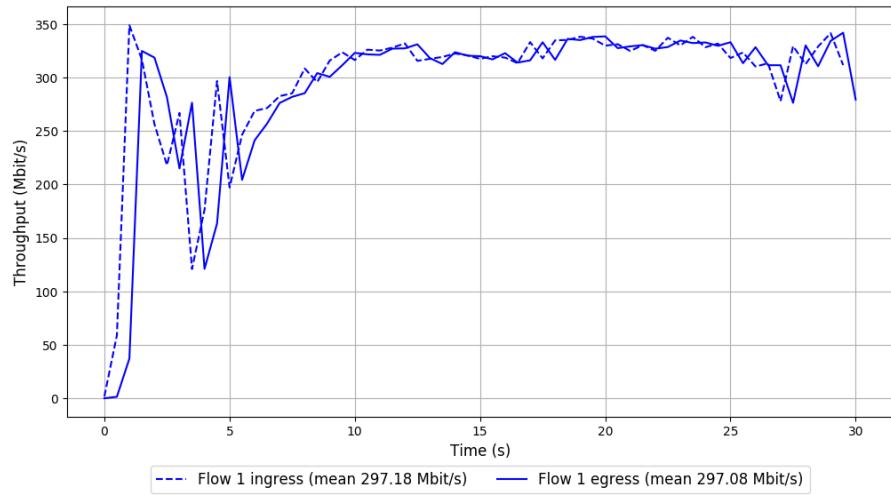


Run 3: Statistics of Copa

```
Start at: 2019-10-03 18:51:52
End at: 2019-10-03 18:52:22
Local clock offset: -0.062 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-10-03 20:38:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.08 Mbit/s
95th percentile per-packet one-way delay: 62.146 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 297.08 Mbit/s
95th percentile per-packet one-way delay: 62.146 ms
Loss rate: 0.34%
```

Run 3: Report of Copa — Data Link

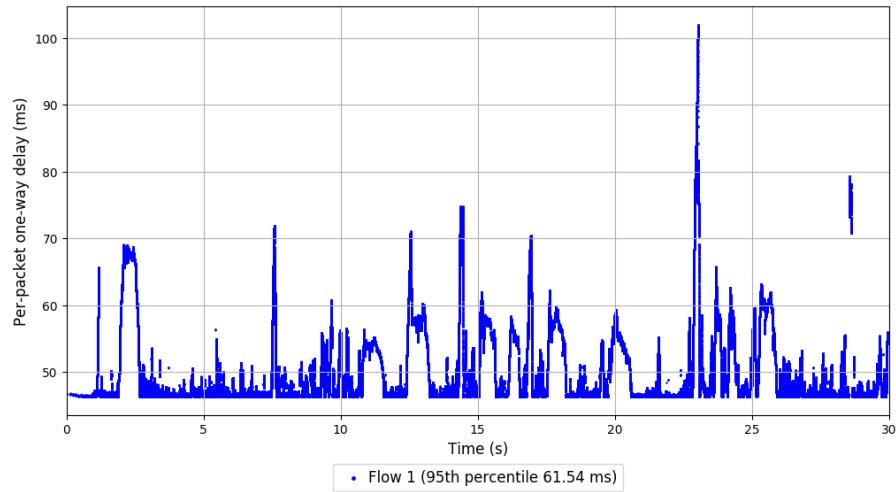
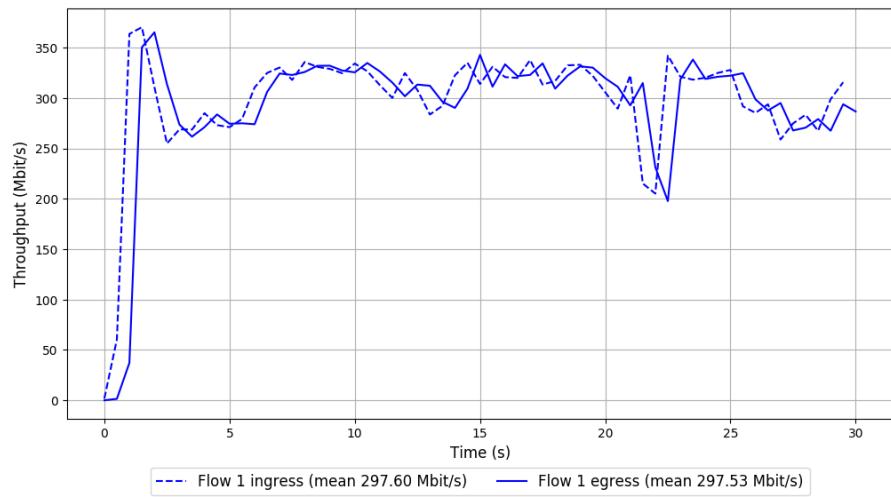


Run 4: Statistics of Copa

```
Start at: 2019-10-03 19:26:51
End at: 2019-10-03 19:27:21
Local clock offset: -0.025 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-10-03 20:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.53 Mbit/s
95th percentile per-packet one-way delay: 61.539 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 297.53 Mbit/s
95th percentile per-packet one-way delay: 61.539 ms
Loss rate: 0.34%
```

Run 4: Report of Copa — Data Link

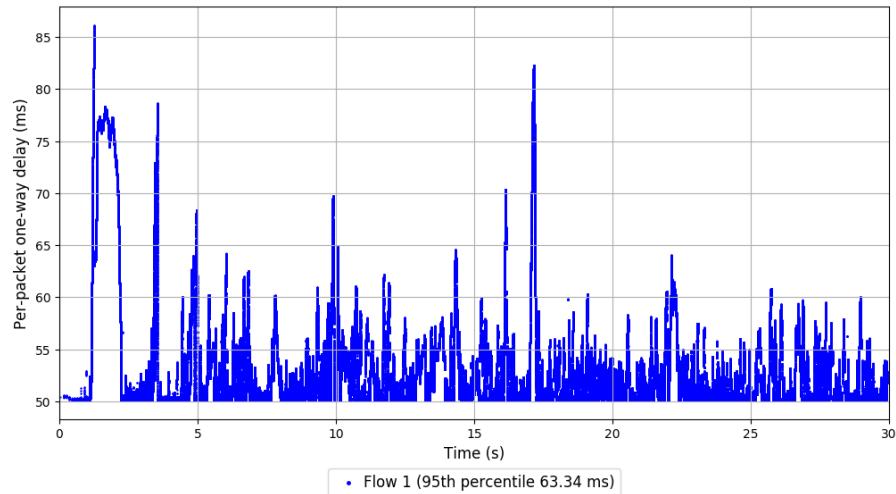
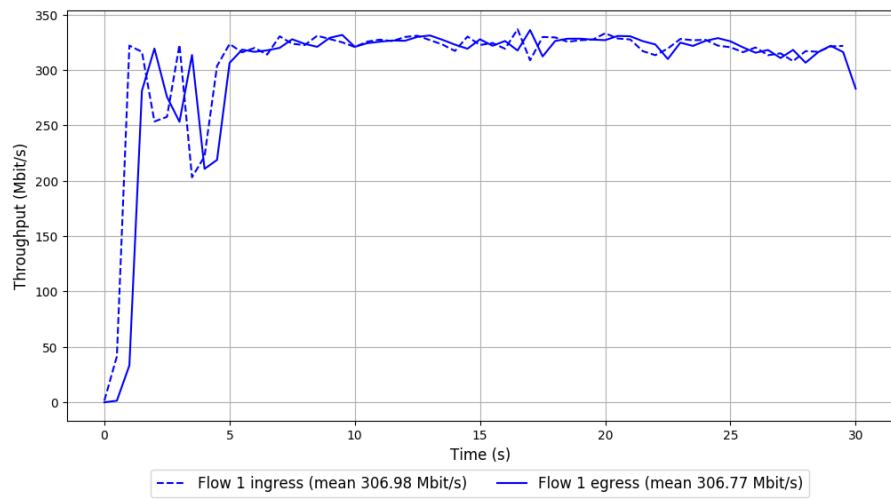


Run 5: Statistics of Copa

```
Start at: 2019-10-03 20:01:55
End at: 2019-10-03 20:02:25
Local clock offset: -0.019 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 20:47:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 63.337 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 306.77 Mbit/s
95th percentile per-packet one-way delay: 63.337 ms
Loss rate: 0.40%
```

Run 5: Report of Copa — Data Link

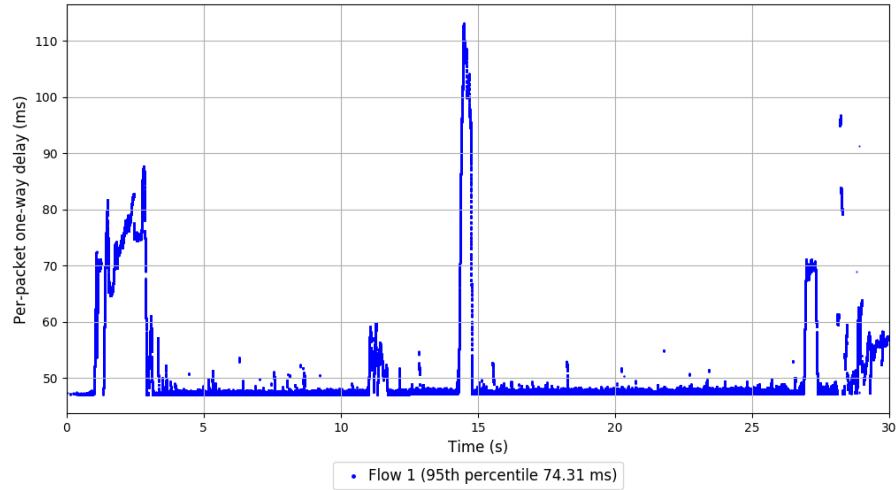
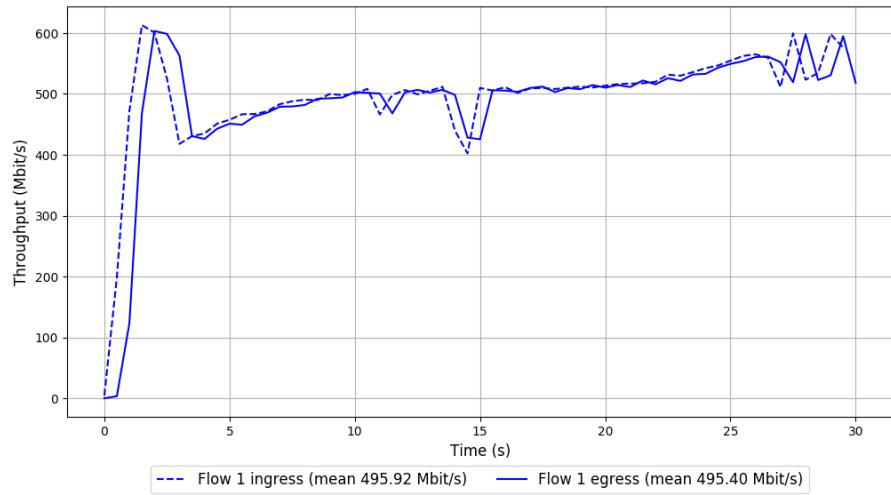


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-10-03 17:53:32
End at: 2019-10-03 17:54:02
Local clock offset: 0.044 ms
Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-10-03 20:47:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 495.40 Mbit/s
95th percentile per-packet one-way delay: 74.309 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 495.40 Mbit/s
95th percentile per-packet one-way delay: 74.309 ms
Loss rate: 0.42%
```

Run 1: Report of TCP Cubic — Data Link

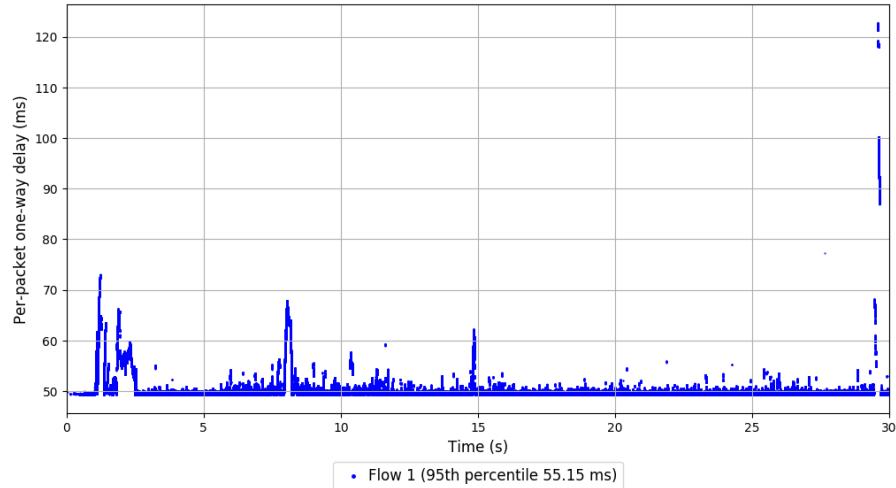
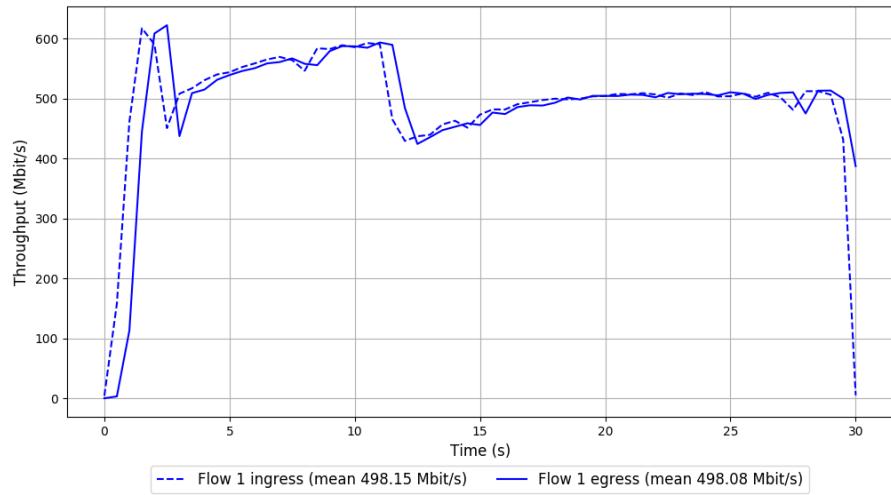


Run 2: Statistics of TCP Cubic

```
Start at: 2019-10-03 18:28:21
End at: 2019-10-03 18:28:51
Local clock offset: -0.041 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-03 20:47:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.08 Mbit/s
95th percentile per-packet one-way delay: 55.154 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 498.08 Mbit/s
95th percentile per-packet one-way delay: 55.154 ms
Loss rate: 0.34%
```

Run 2: Report of TCP Cubic — Data Link

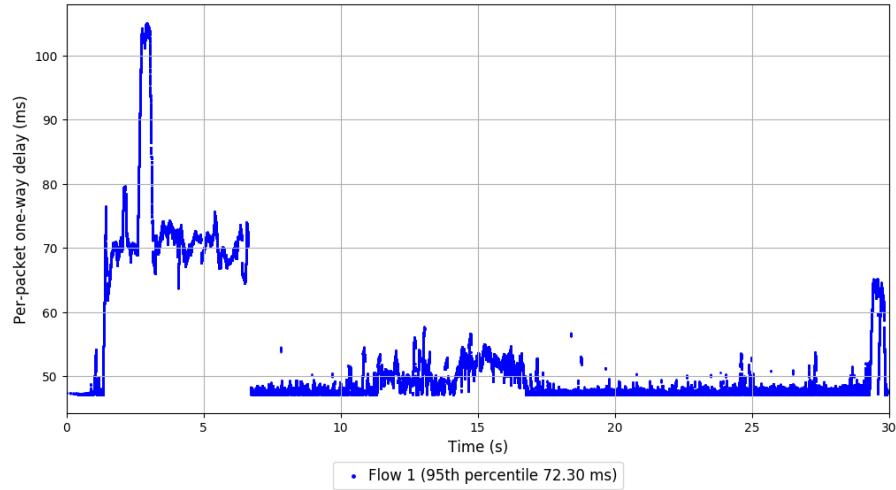
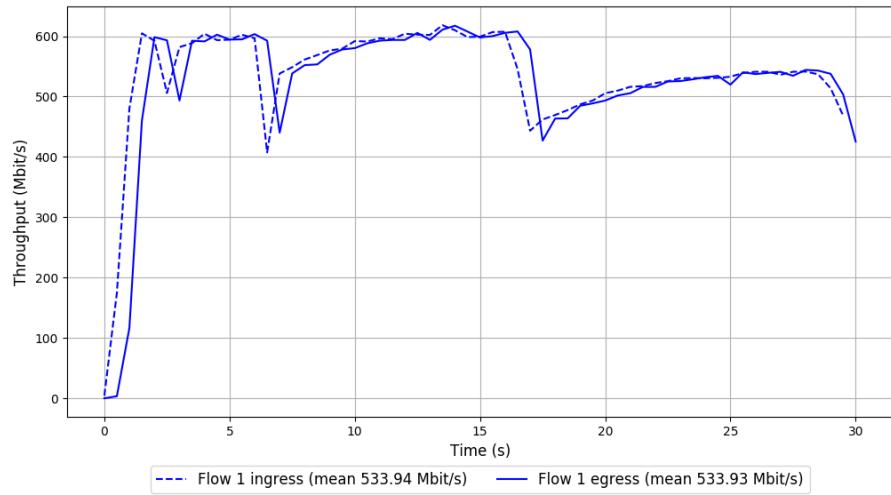


Run 3: Statistics of TCP Cubic

```
Start at: 2019-10-03 19:03:09
End at: 2019-10-03 19:03:40
Local clock offset: -0.036 ms
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-10-03 20:47:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.93 Mbit/s
95th percentile per-packet one-way delay: 72.304 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 533.93 Mbit/s
95th percentile per-packet one-way delay: 72.304 ms
Loss rate: 0.32%
```

Run 3: Report of TCP Cubic — Data Link

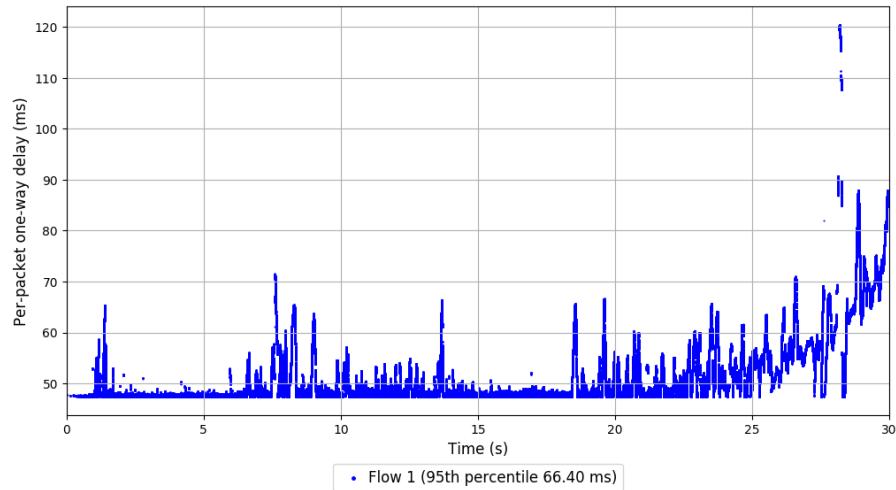
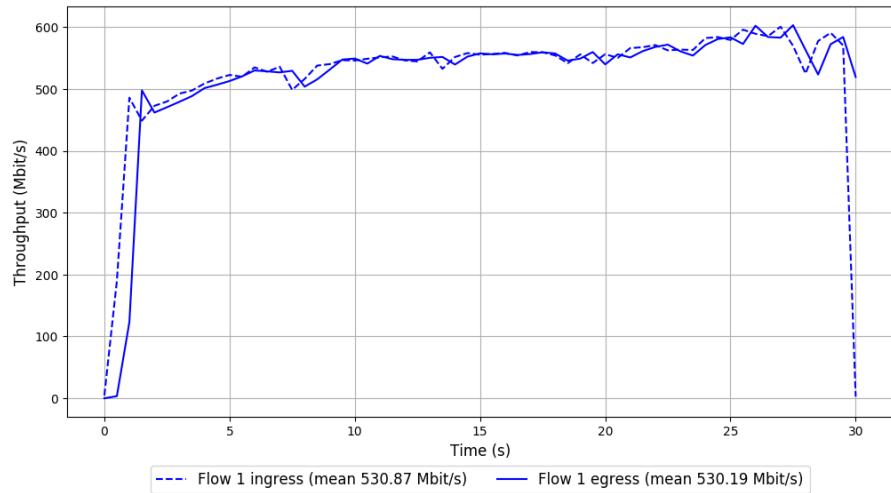


Run 4: Statistics of TCP Cubic

```
Start at: 2019-10-03 19:38:10
End at: 2019-10-03 19:38:40
Local clock offset: 0.334 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 20:47:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 530.19 Mbit/s
95th percentile per-packet one-way delay: 66.401 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 530.19 Mbit/s
95th percentile per-packet one-way delay: 66.401 ms
Loss rate: 0.44%
```

Run 4: Report of TCP Cubic — Data Link

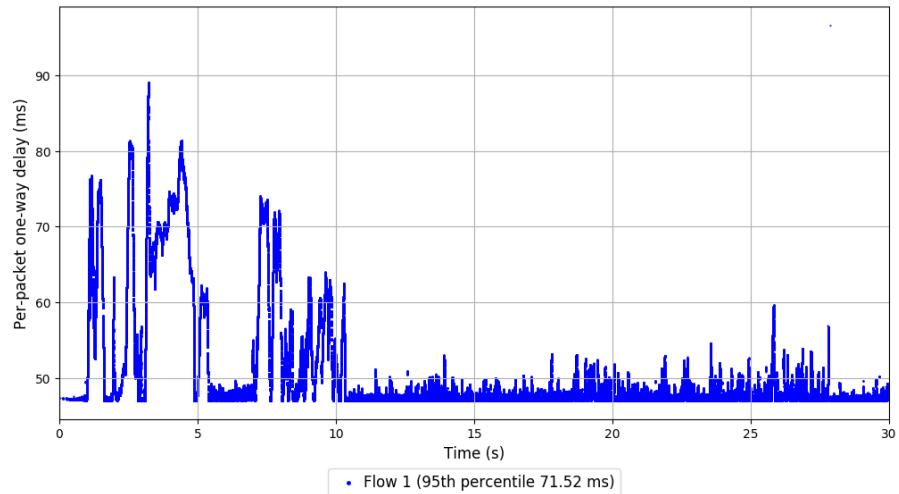
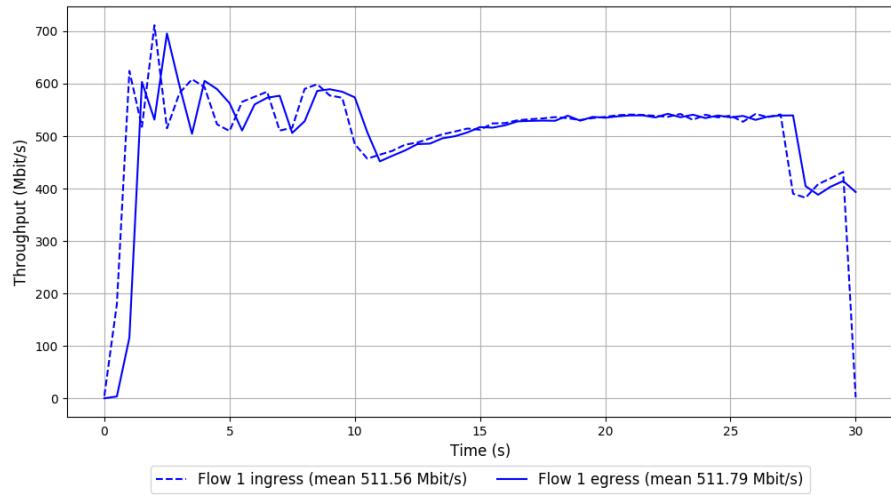


Run 5: Statistics of TCP Cubic

```
Start at: 2019-10-03 20:13:18
End at: 2019-10-03 20:13:48
Local clock offset: -0.033 ms
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-10-03 20:47:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.79 Mbit/s
95th percentile per-packet one-way delay: 71.517 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 511.79 Mbit/s
95th percentile per-packet one-way delay: 71.517 ms
Loss rate: 0.27%
```

Run 5: Report of TCP Cubic — Data Link

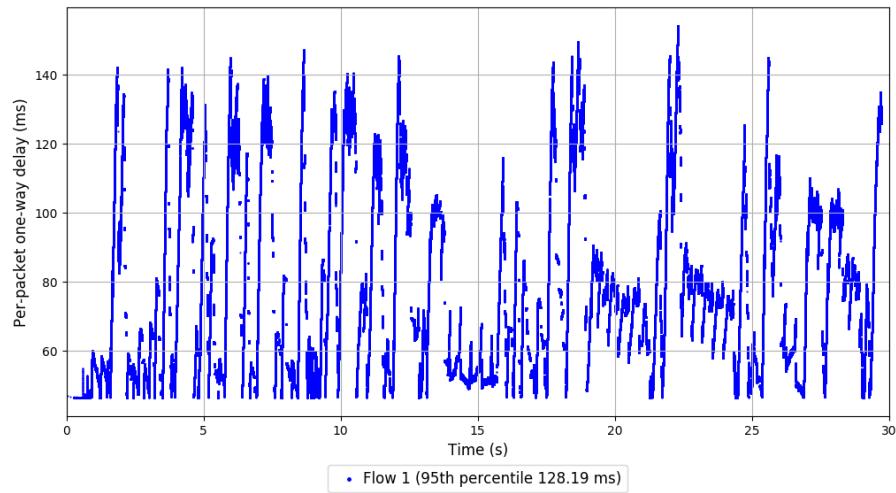
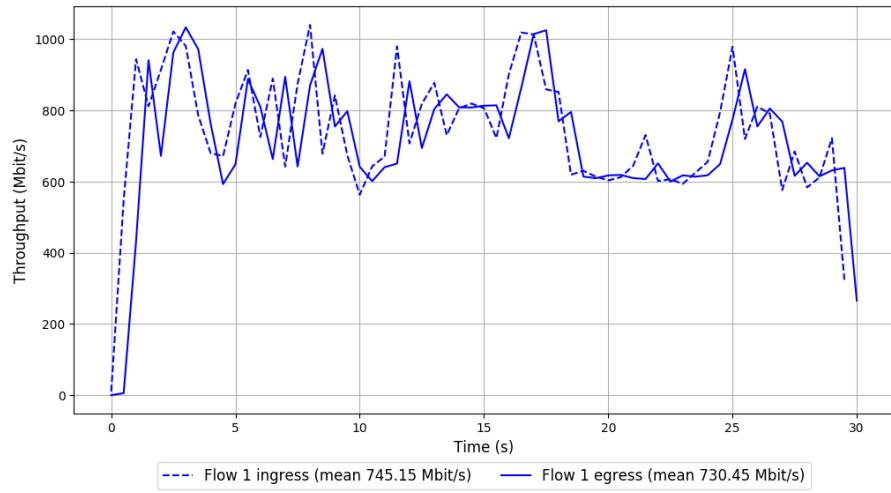


```
Run 1: Statistics of FillP

Start at: 2019-10-03 17:26:09
End at: 2019-10-03 17:26:39
Local clock offset: -0.069 ms
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-10-03 20:53:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 730.45 Mbit/s
95th percentile per-packet one-way delay: 128.188 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 730.45 Mbit/s
95th percentile per-packet one-way delay: 128.188 ms
Loss rate: 2.29%
```

Run 1: Report of FillP — Data Link

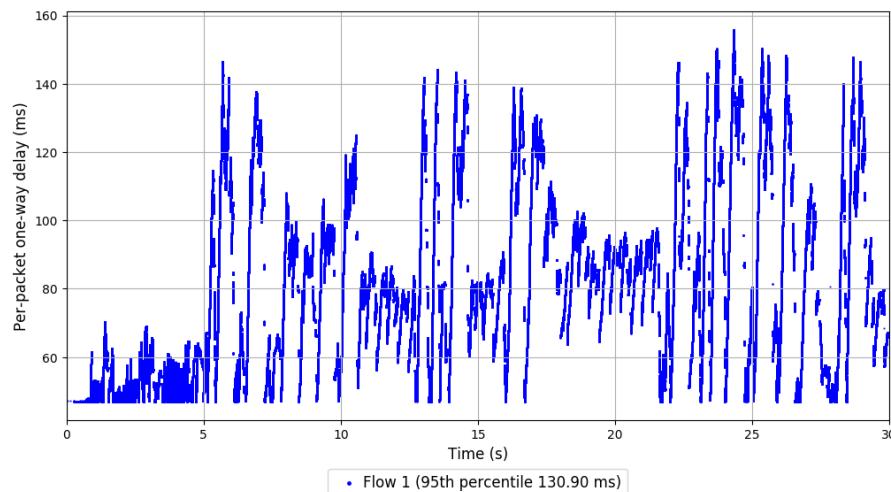
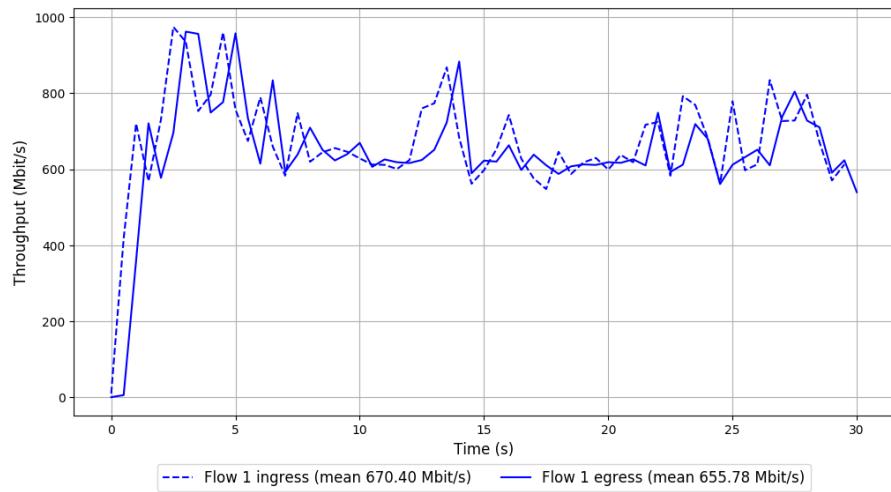


Run 2: Statistics of FillP

```
Start at: 2019-10-03 18:00:55
End at: 2019-10-03 18:01:25
Local clock offset: 0.005 ms
Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-10-03 21:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 655.78 Mbit/s
95th percentile per-packet one-way delay: 130.904 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 655.78 Mbit/s
95th percentile per-packet one-way delay: 130.904 ms
Loss rate: 2.49%
```

Run 2: Report of FillP — Data Link

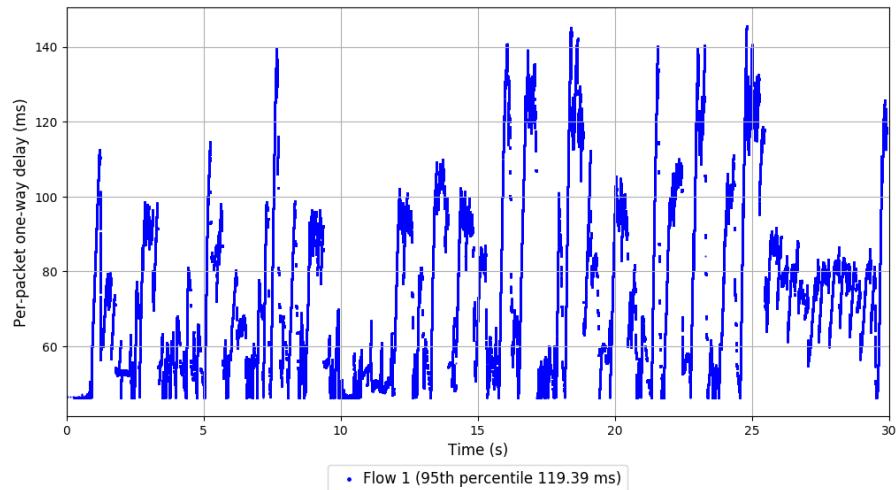
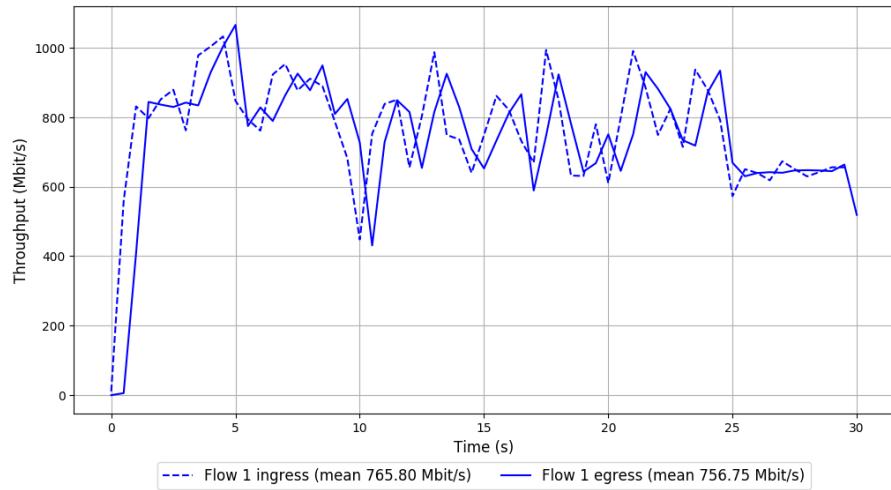


Run 3: Statistics of FillP

```
Start at: 2019-10-03 18:35:36
End at: 2019-10-03 18:36:06
Local clock offset: -0.046 ms
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 21:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 756.75 Mbit/s
95th percentile per-packet one-way delay: 119.390 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 756.75 Mbit/s
95th percentile per-packet one-way delay: 119.390 ms
Loss rate: 1.49%
```

Run 3: Report of FillP — Data Link

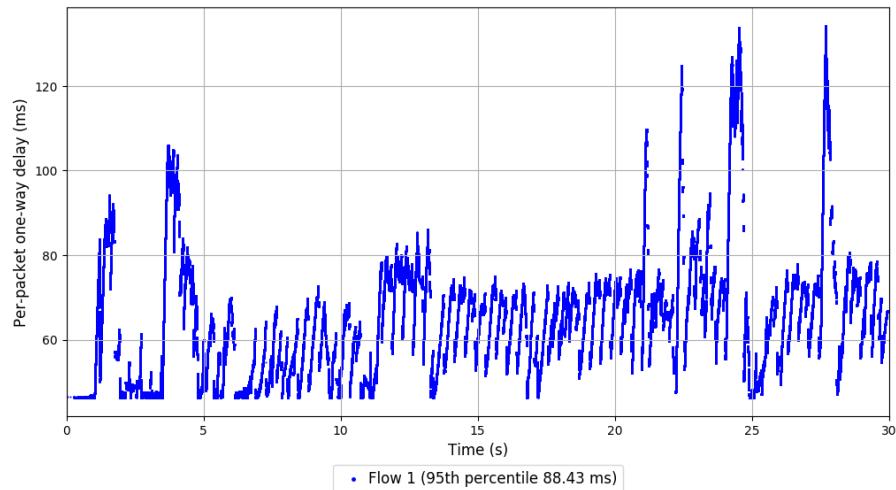
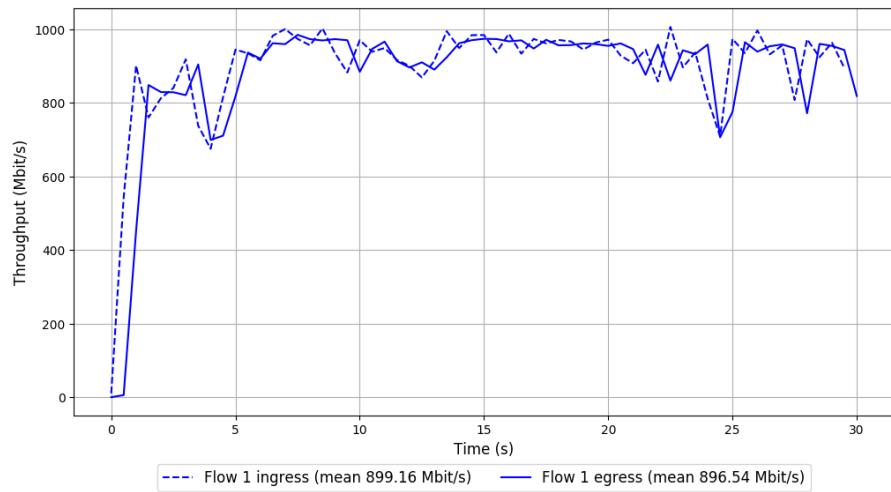


Run 4: Statistics of FillP

```
Start at: 2019-10-03 19:10:29
End at: 2019-10-03 19:10:59
Local clock offset: -0.033 ms
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-10-03 21:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 896.54 Mbit/s
95th percentile per-packet one-way delay: 88.429 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 896.54 Mbit/s
95th percentile per-packet one-way delay: 88.429 ms
Loss rate: 0.61%
```

Run 4: Report of FillP — Data Link

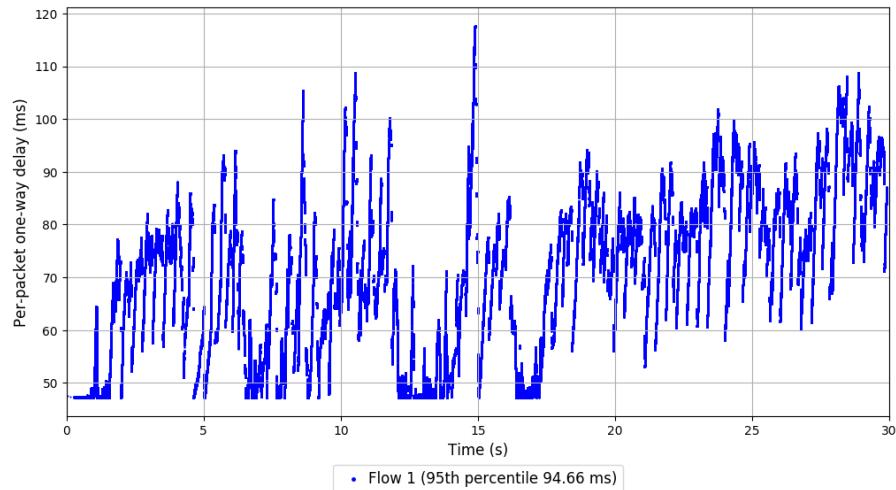
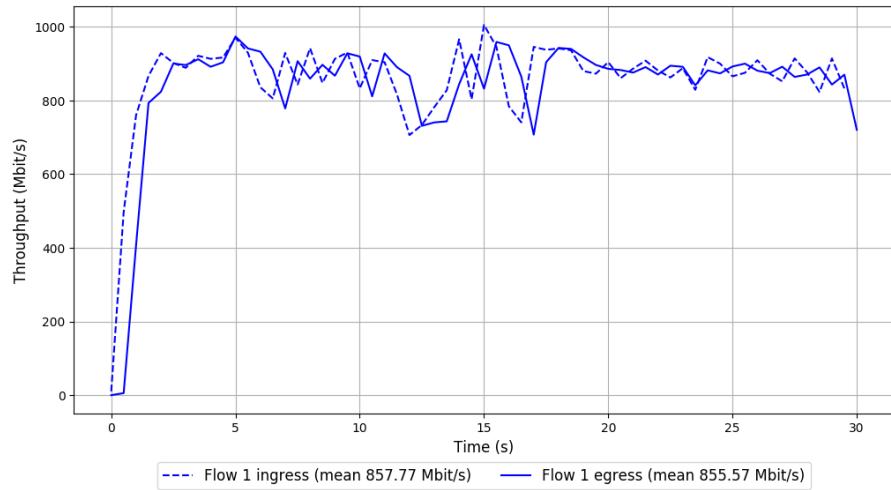


Run 5: Statistics of FillP

```
Start at: 2019-10-03 19:45:33
End at: 2019-10-03 19:46:03
Local clock offset: -0.012 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-10-03 21:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 855.57 Mbit/s
95th percentile per-packet one-way delay: 94.659 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 855.57 Mbit/s
95th percentile per-packet one-way delay: 94.659 ms
Loss rate: 0.57%
```

Run 5: Report of FillP — Data Link

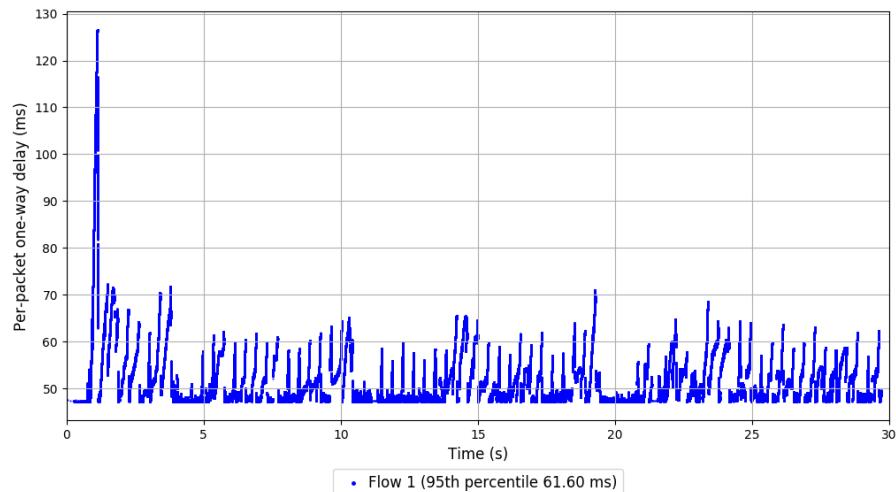
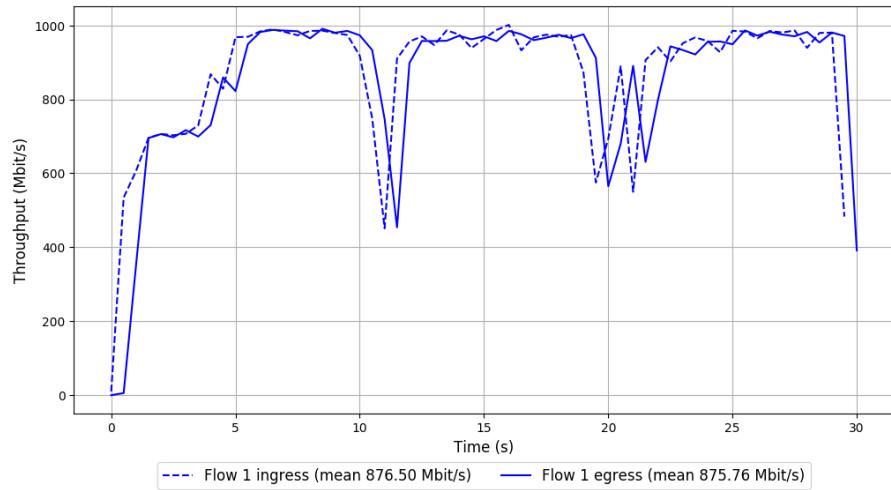


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-10-03 17:23:20
End at: 2019-10-03 17:23:50
Local clock offset: -0.023 ms
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-03 21:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 875.76 Mbit/s
95th percentile per-packet one-way delay: 61.600 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 875.76 Mbit/s
95th percentile per-packet one-way delay: 61.600 ms
Loss rate: 0.40%
```

Run 1: Report of FillP-Sheep — Data Link

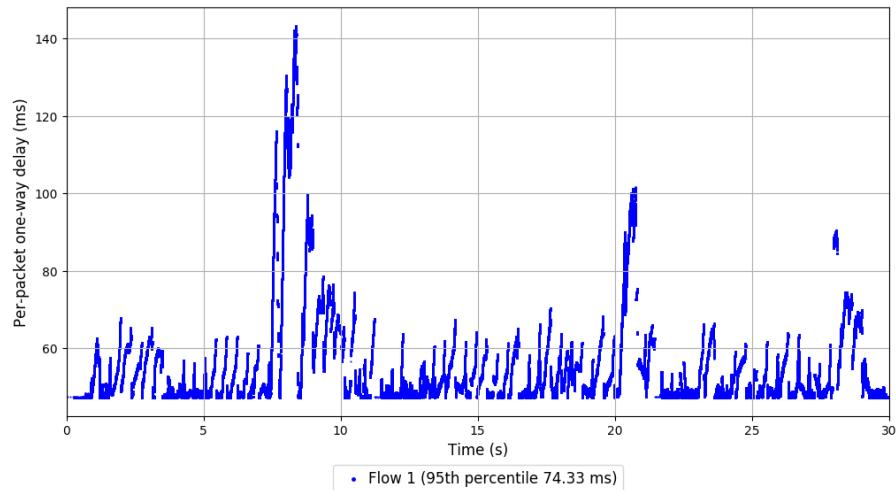
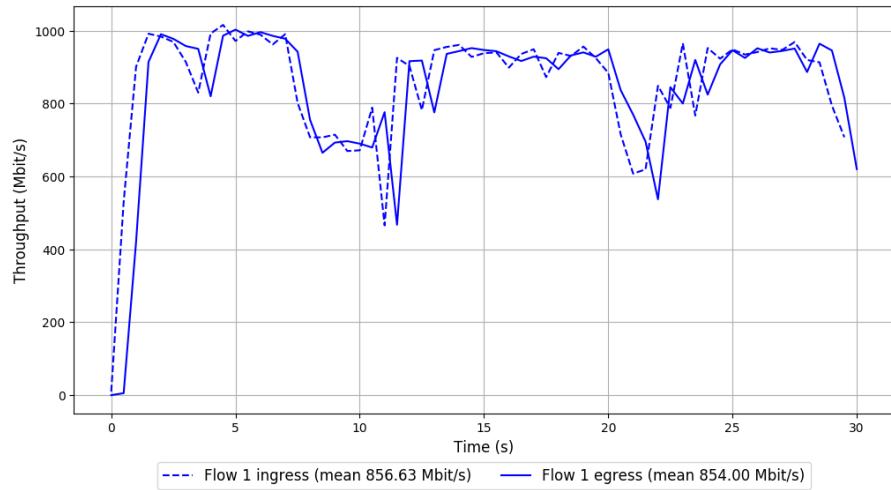


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-10-03 17:58:02
End at: 2019-10-03 17:58:32
Local clock offset: 0.085 ms
Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-10-03 21:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 854.00 Mbit/s
95th percentile per-packet one-way delay: 74.328 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 854.00 Mbit/s
95th percentile per-packet one-way delay: 74.328 ms
Loss rate: 0.63%
```

Run 2: Report of FillP-Sheep — Data Link

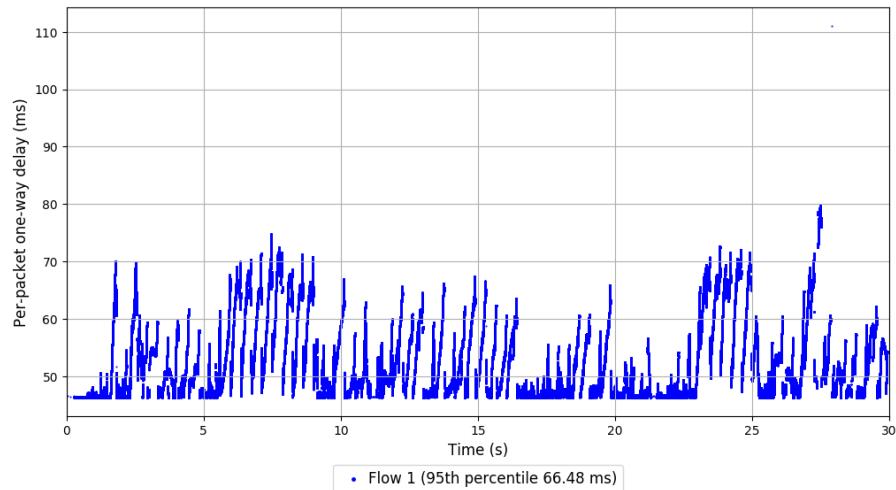
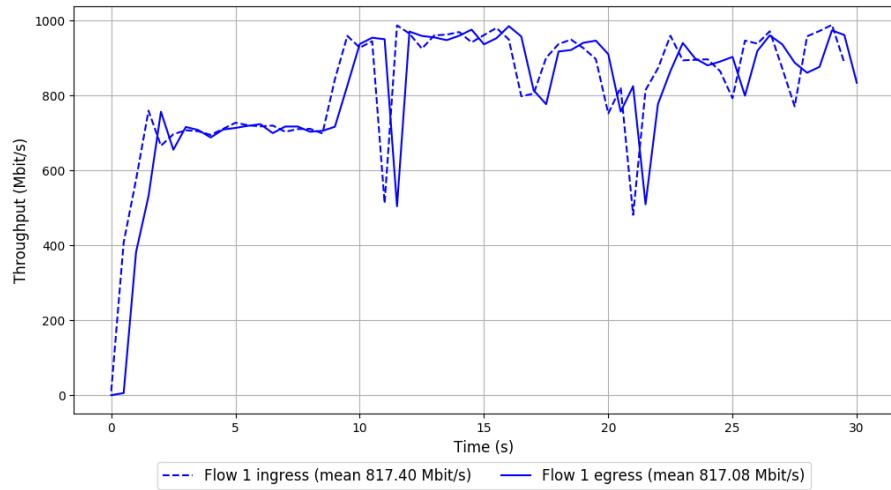


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-10-03 18:32:47
End at: 2019-10-03 18:33:17
Local clock offset: -0.031 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-10-03 21:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 817.08 Mbit/s
95th percentile per-packet one-way delay: 66.482 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 817.08 Mbit/s
95th percentile per-packet one-way delay: 66.482 ms
Loss rate: 0.35%
```

Run 3: Report of FillP-Sheep — Data Link

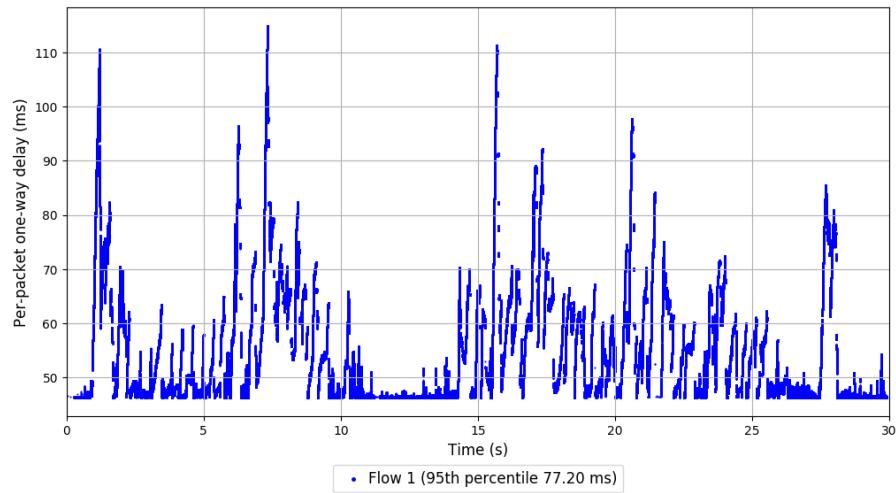
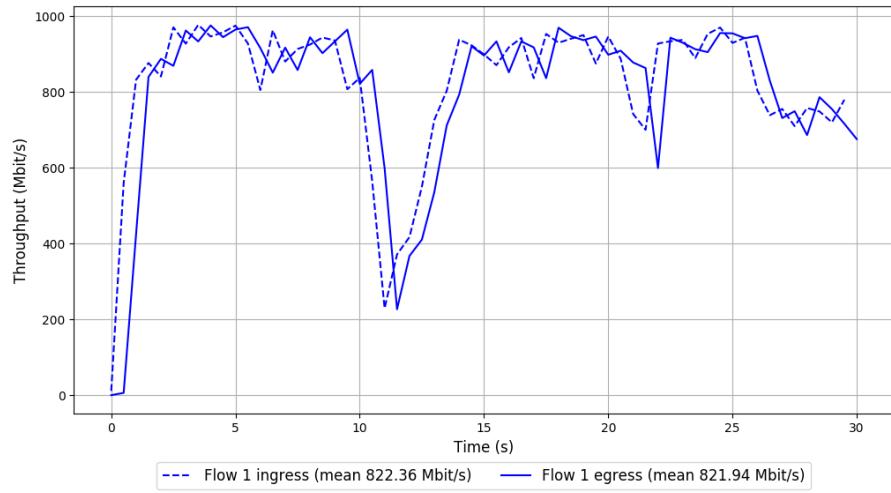


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-10-03 19:07:39
End at: 2019-10-03 19:08:09
Local clock offset: -0.036 ms
Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-10-03 21:13:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 821.94 Mbit/s
95th percentile per-packet one-way delay: 77.198 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 821.94 Mbit/s
95th percentile per-packet one-way delay: 77.198 ms
Loss rate: 0.36%
```

Run 4: Report of FillP-Sheep — Data Link

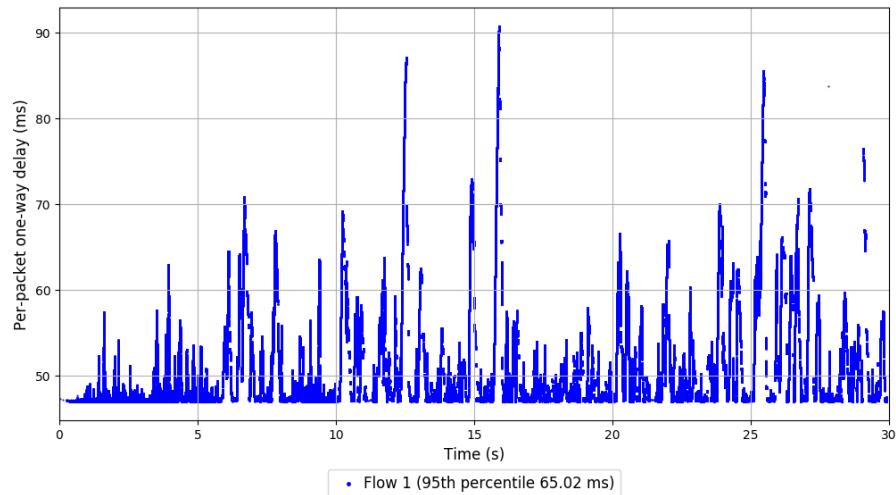
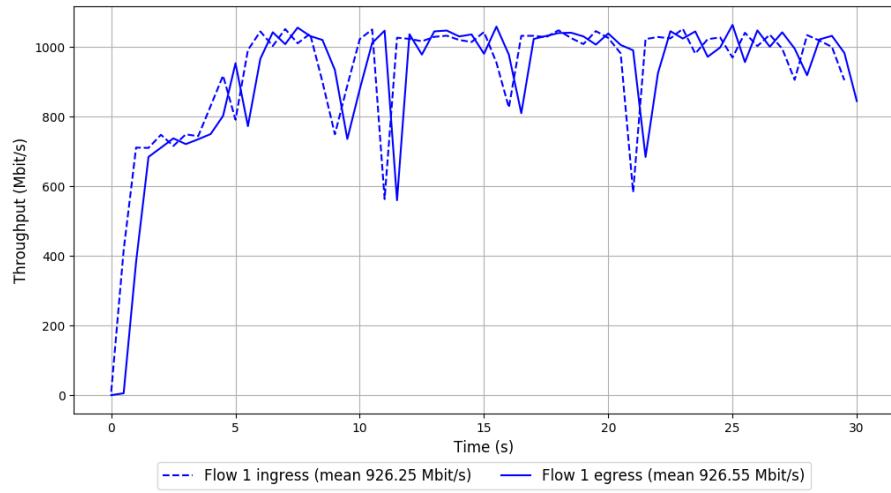


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-10-03 19:42:38
End at: 2019-10-03 19:43:08
Local clock offset: 0.004 ms
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 926.55 Mbit/s
95th percentile per-packet one-way delay: 65.016 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 926.55 Mbit/s
95th percentile per-packet one-way delay: 65.016 ms
Loss rate: 0.30%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

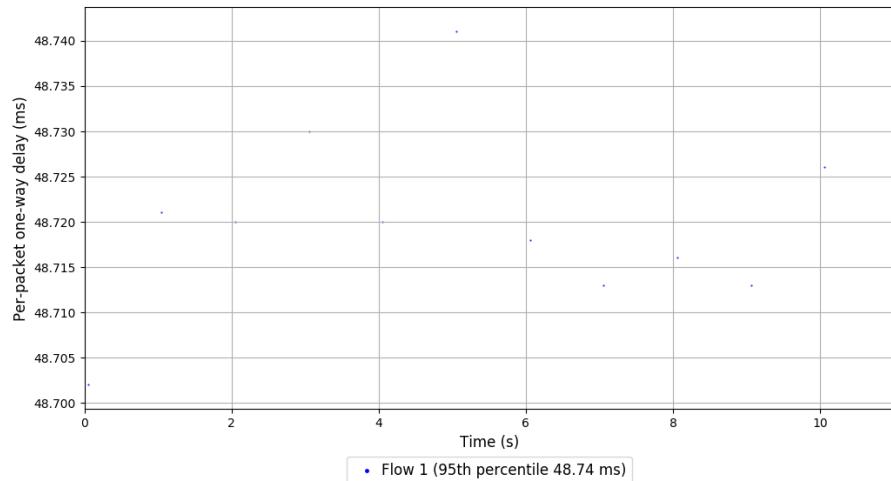
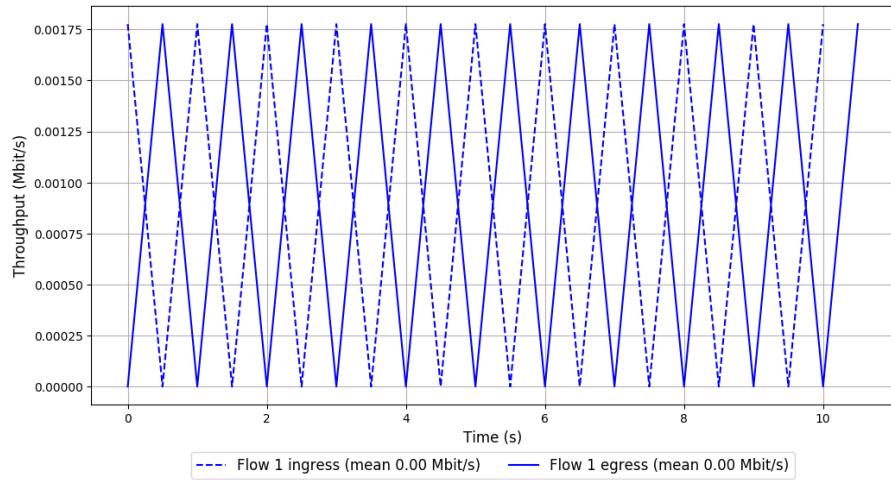
Start at: 2019-10-03 17:20:42

End at: 2019-10-03 17:21:13

Local clock offset: -0.08 ms

Remote clock offset: -0.066 ms

Run 1: Report of Indigo — Data Link

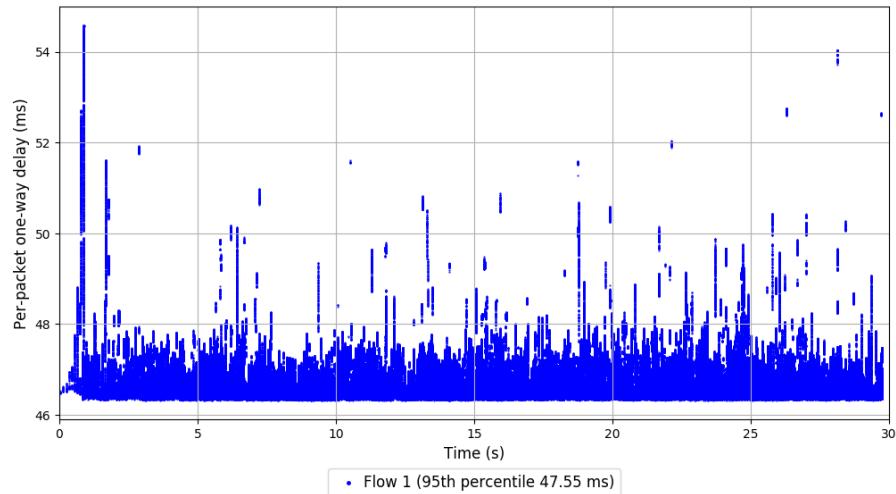
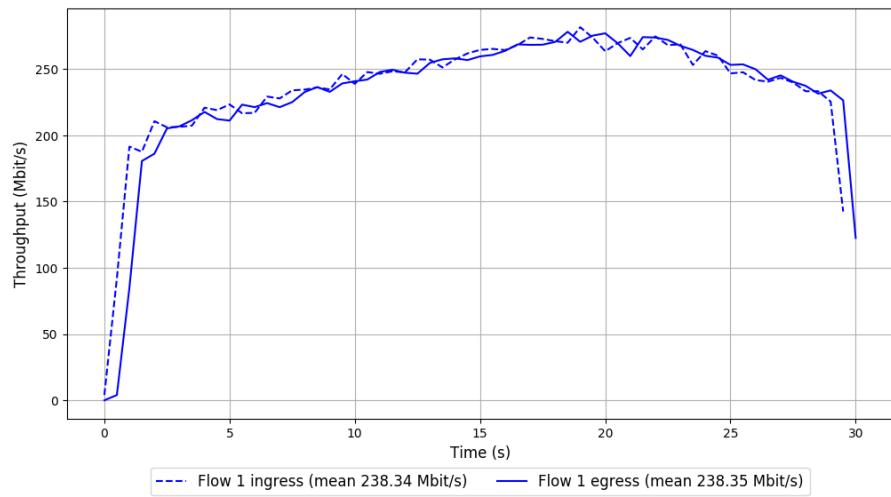


Run 2: Statistics of Indigo

```
Start at: 2019-10-03 17:55:03
End at: 2019-10-03 17:55:33
Local clock offset: 0.035 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.35 Mbit/s
95th percentile per-packet one-way delay: 47.546 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 238.35 Mbit/s
95th percentile per-packet one-way delay: 47.546 ms
Loss rate: 0.31%
```

Run 2: Report of Indigo — Data Link

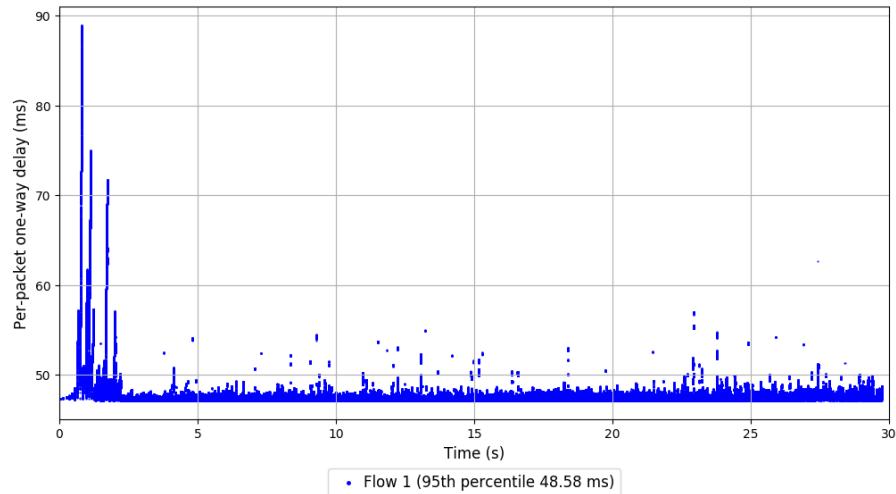
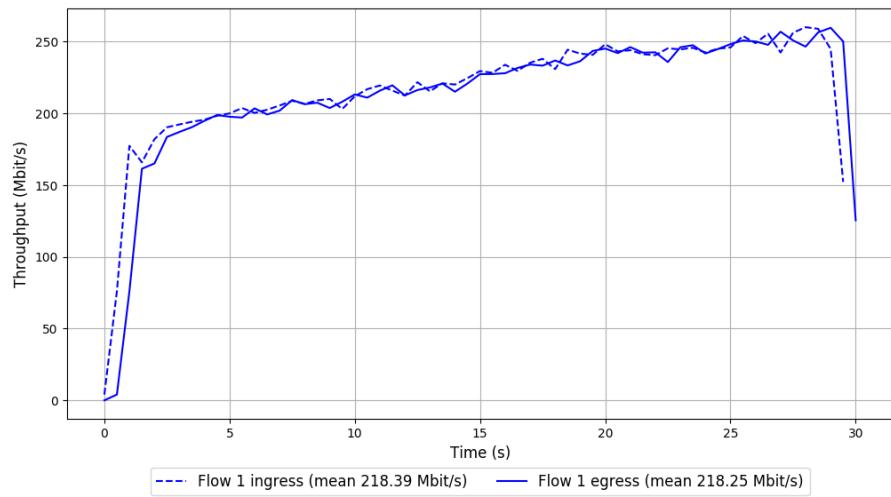


Run 3: Statistics of Indigo

```
Start at: 2019-10-03 18:29:52
End at: 2019-10-03 18:30:22
Local clock offset: -0.014 ms
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.25 Mbit/s
95th percentile per-packet one-way delay: 48.584 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 218.25 Mbit/s
95th percentile per-packet one-way delay: 48.584 ms
Loss rate: 0.38%
```

Run 3: Report of Indigo — Data Link

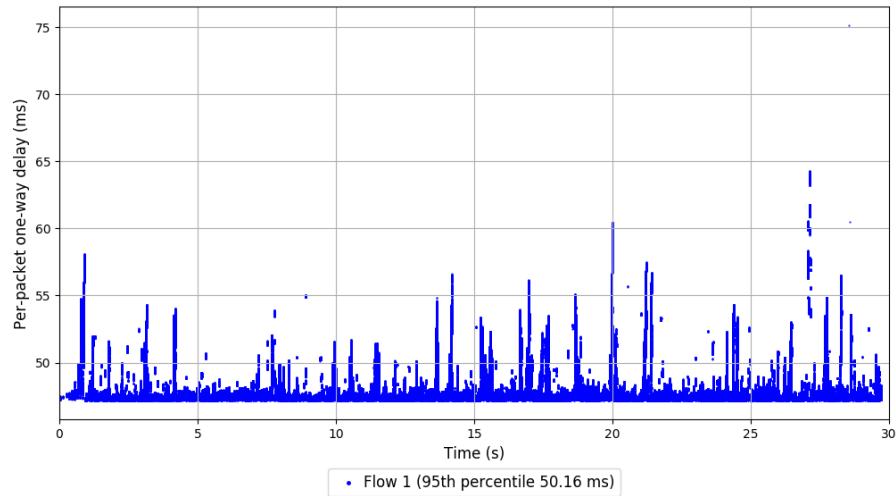
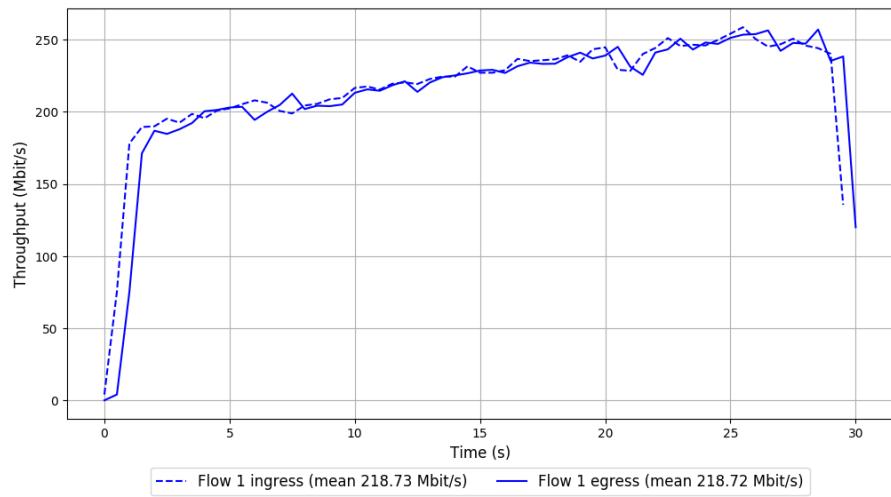


Run 4: Statistics of Indigo

```
Start at: 2019-10-03 19:04:42
End at: 2019-10-03 19:05:12
Local clock offset: -0.031 ms
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.72 Mbit/s
95th percentile per-packet one-way delay: 50.164 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 218.72 Mbit/s
95th percentile per-packet one-way delay: 50.164 ms
Loss rate: 0.32%
```

Run 4: Report of Indigo — Data Link

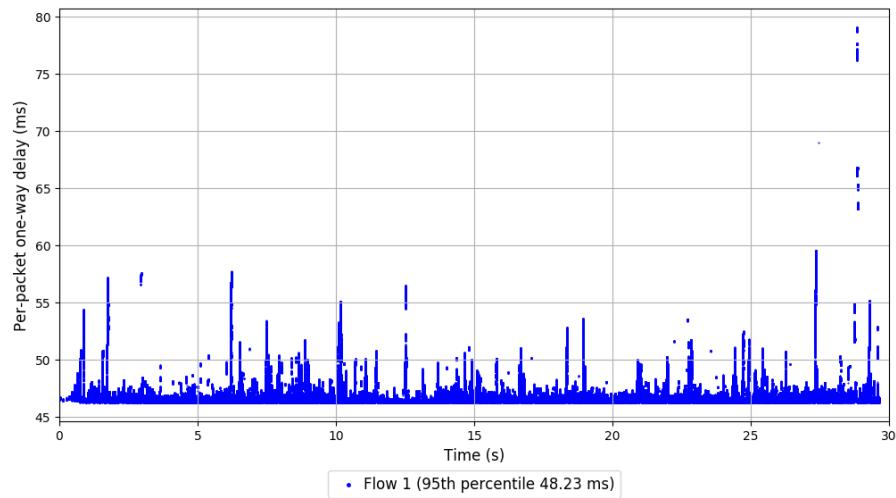
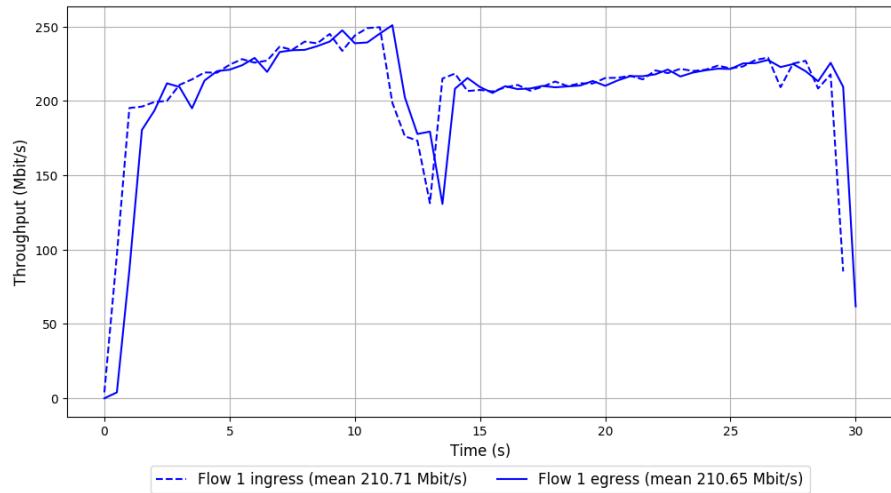


Run 5: Statistics of Indigo

```
Start at: 2019-10-03 19:39:42
End at: 2019-10-03 19:40:12
Local clock offset: -0.017 ms
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.65 Mbit/s
95th percentile per-packet one-way delay: 48.232 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 210.65 Mbit/s
95th percentile per-packet one-way delay: 48.232 ms
Loss rate: 0.34%
```

Run 5: Report of Indigo — Data Link

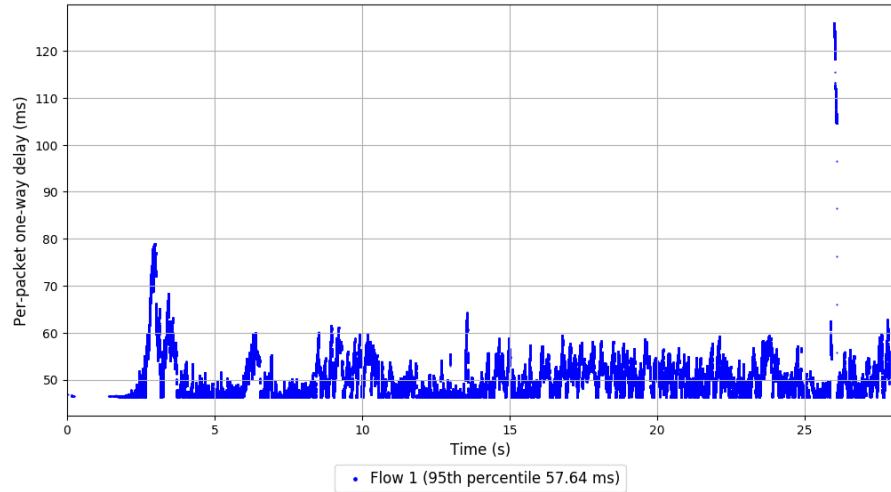
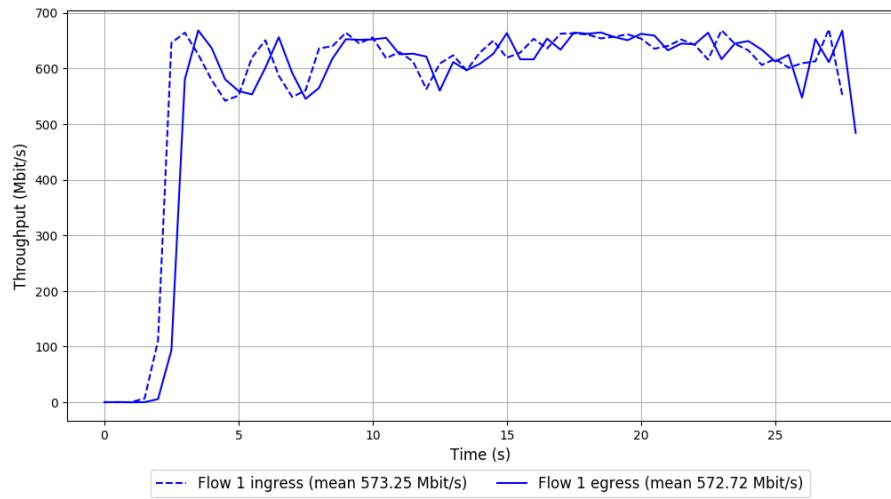


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 17:30:17
End at: 2019-10-03 17:30:47
Local clock offset: -0.042 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.72 Mbit/s
95th percentile per-packet one-way delay: 57.642 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 572.72 Mbit/s
95th percentile per-packet one-way delay: 57.642 ms
Loss rate: 0.43%
```

Run 1: Report of Indigo-MusesC3 — Data Link

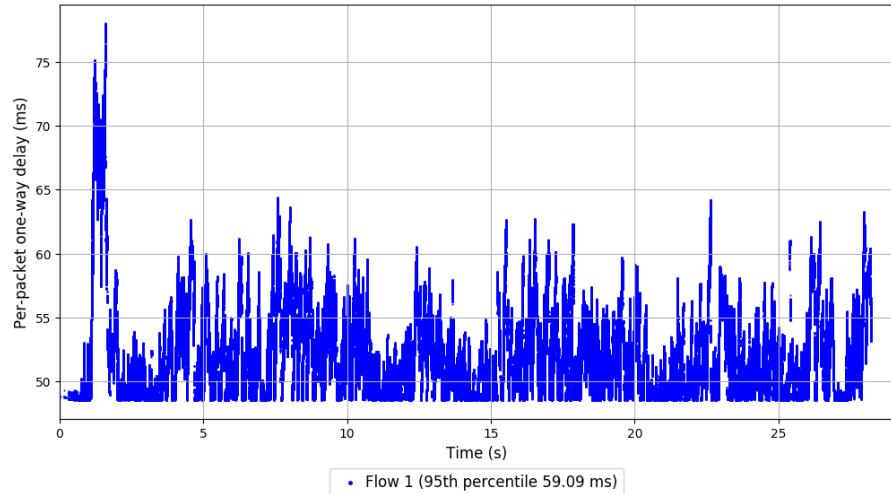
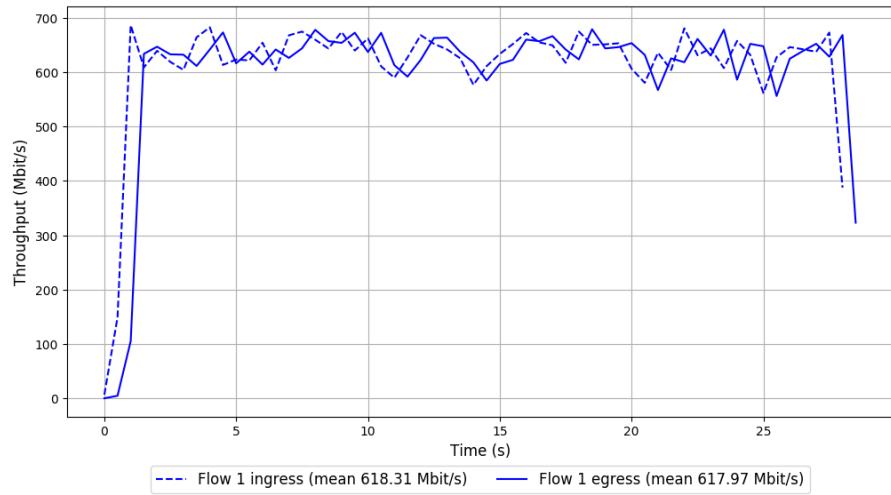


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 18:04:58
End at: 2019-10-03 18:05:28
Local clock offset: -0.054 ms
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-10-03 21:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 617.97 Mbit/s
95th percentile per-packet one-way delay: 59.094 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 617.97 Mbit/s
95th percentile per-packet one-way delay: 59.094 ms
Loss rate: 0.40%
```

Run 2: Report of Indigo-MusesC3 — Data Link

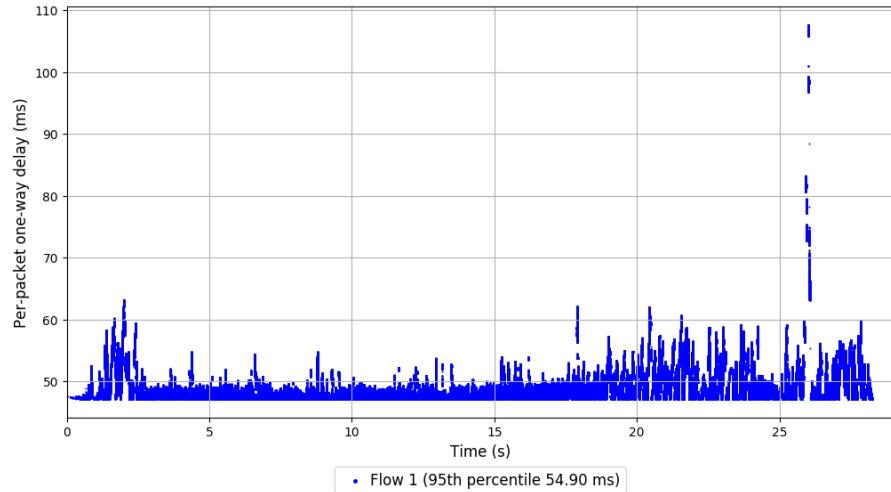
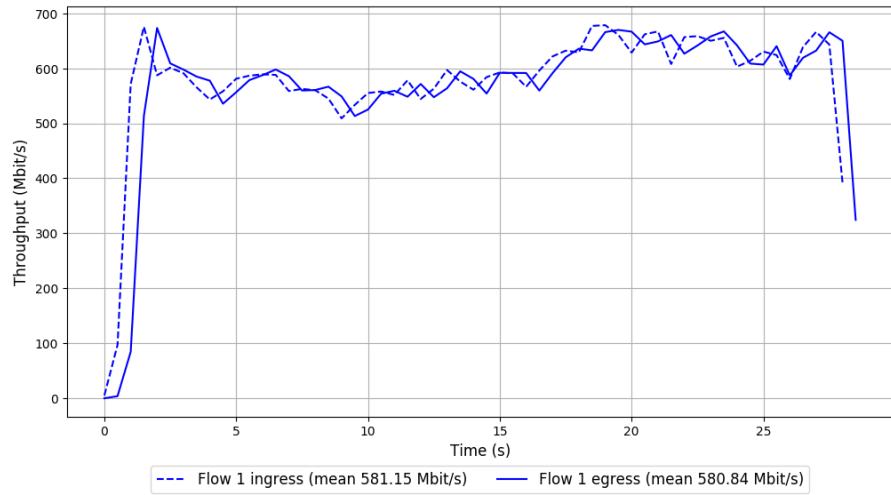


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 18:39:52
End at: 2019-10-03 18:40:22
Local clock offset: -0.056 ms
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-10-03 21:22:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.84 Mbit/s
95th percentile per-packet one-way delay: 54.900 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 580.84 Mbit/s
95th percentile per-packet one-way delay: 54.900 ms
Loss rate: 0.39%
```

Run 3: Report of Indigo-MusesC3 — Data Link

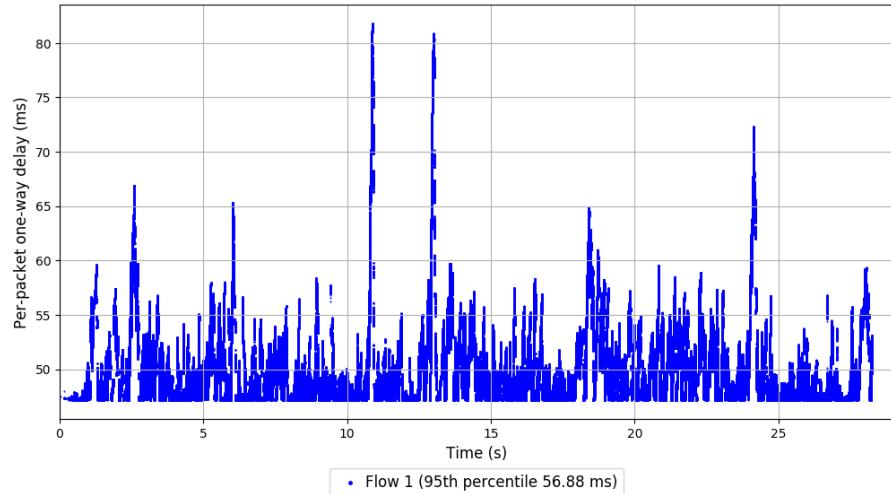
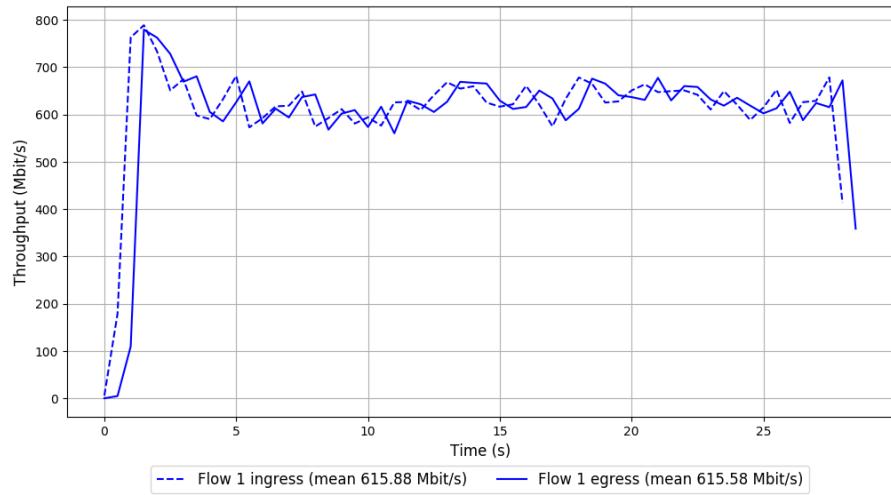


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 19:14:54
End at: 2019-10-03 19:15:24
Local clock offset: 0.004 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-10-03 21:24:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 615.58 Mbit/s
95th percentile per-packet one-way delay: 56.877 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 615.58 Mbit/s
95th percentile per-packet one-way delay: 56.877 ms
Loss rate: 0.39%
```

Run 4: Report of Indigo-MusesC3 — Data Link

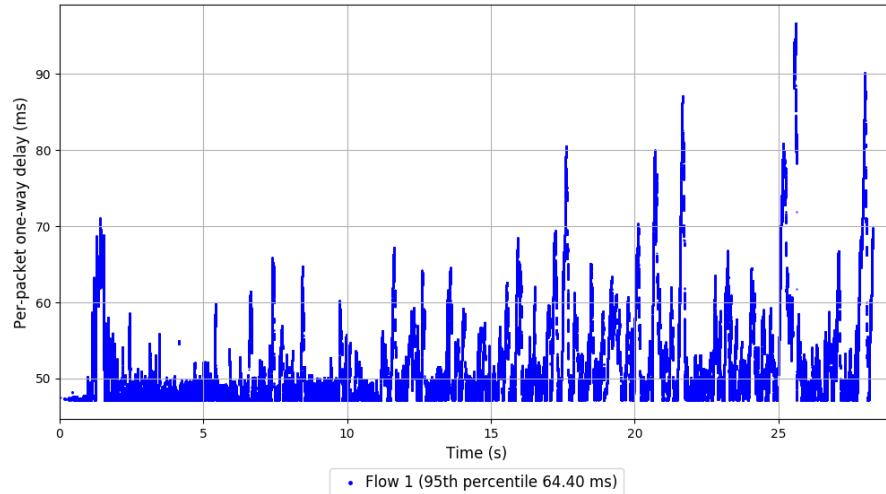
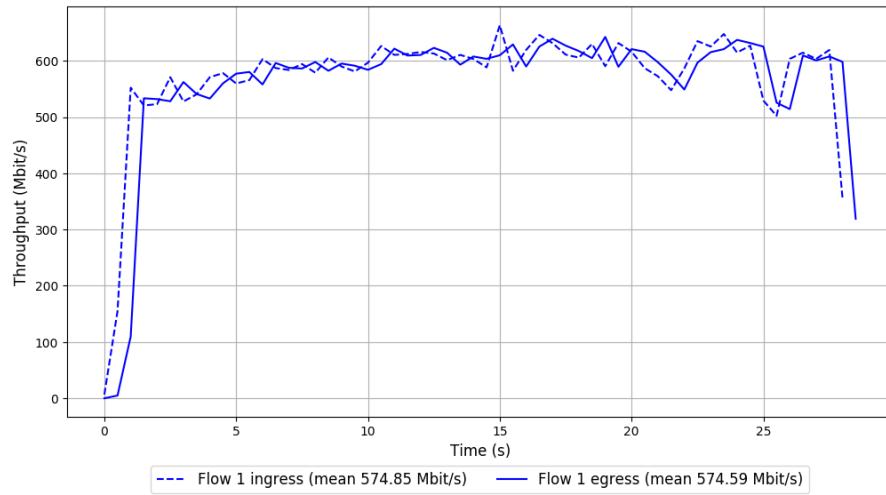


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-10-03 19:49:55
End at: 2019-10-03 19:50:25
Local clock offset: -0.054 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-10-03 21:25:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.59 Mbit/s
95th percentile per-packet one-way delay: 64.402 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 574.59 Mbit/s
95th percentile per-packet one-way delay: 64.402 ms
Loss rate: 0.36%
```

Run 5: Report of Indigo-MusesC3 — Data Link

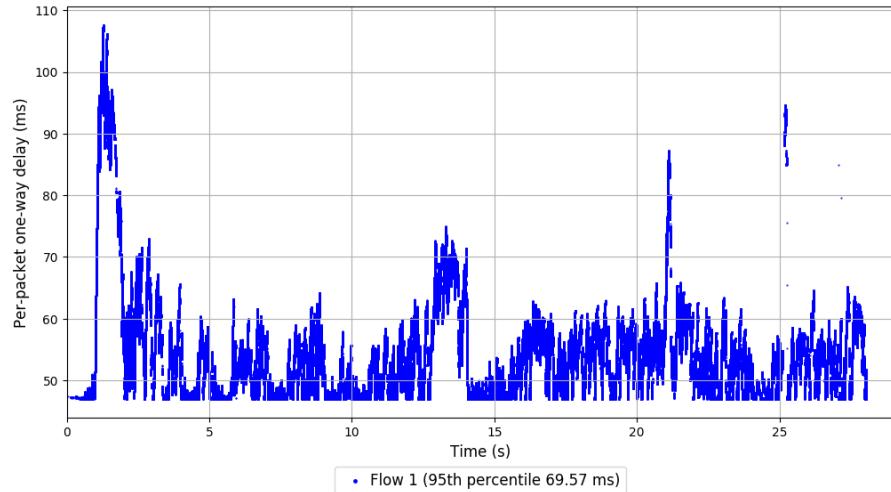
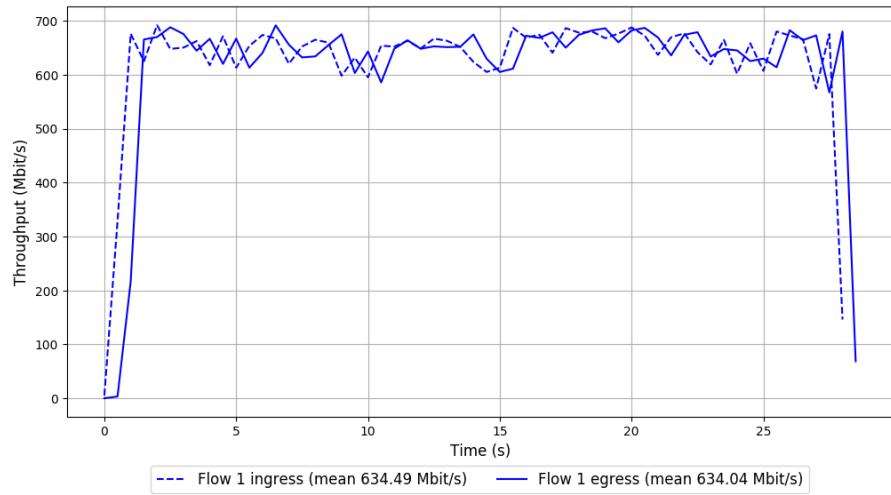


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 17:39:05
End at: 2019-10-03 17:39:35
Local clock offset: 0.015 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-10-03 21:26:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.04 Mbit/s
95th percentile per-packet one-way delay: 69.569 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 634.04 Mbit/s
95th percentile per-packet one-way delay: 69.569 ms
Loss rate: 0.41%
```

Run 1: Report of Indigo-MusesC5 — Data Link

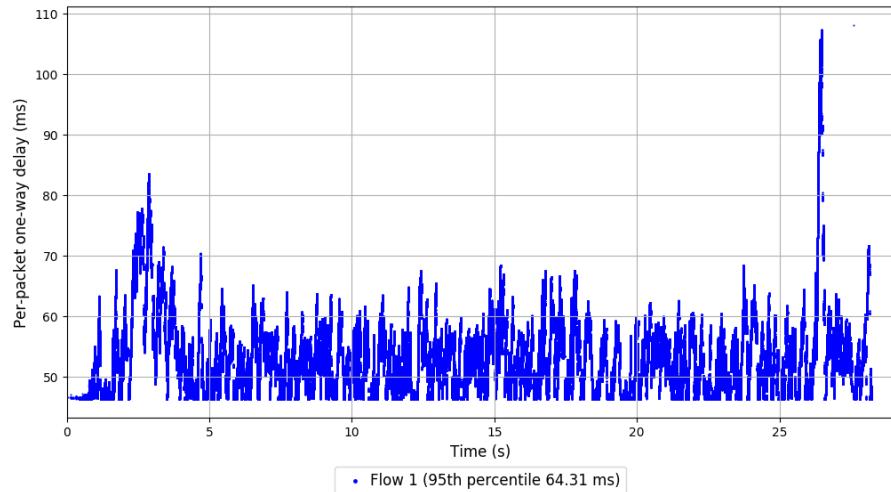
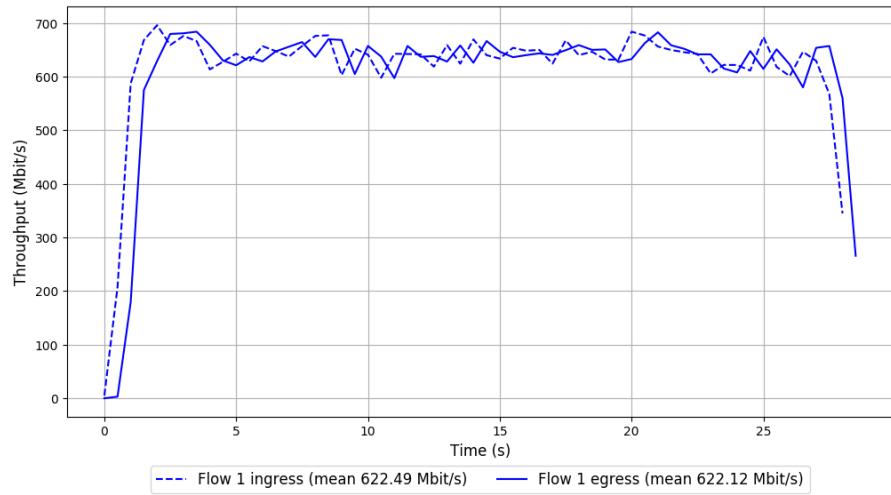


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 18:14:02
End at: 2019-10-03 18:14:32
Local clock offset: -0.061 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-10-03 21:26:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 622.12 Mbit/s
95th percentile per-packet one-way delay: 64.310 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 622.12 Mbit/s
95th percentile per-packet one-way delay: 64.310 ms
Loss rate: 0.39%
```

Run 2: Report of Indigo-MusesC5 — Data Link

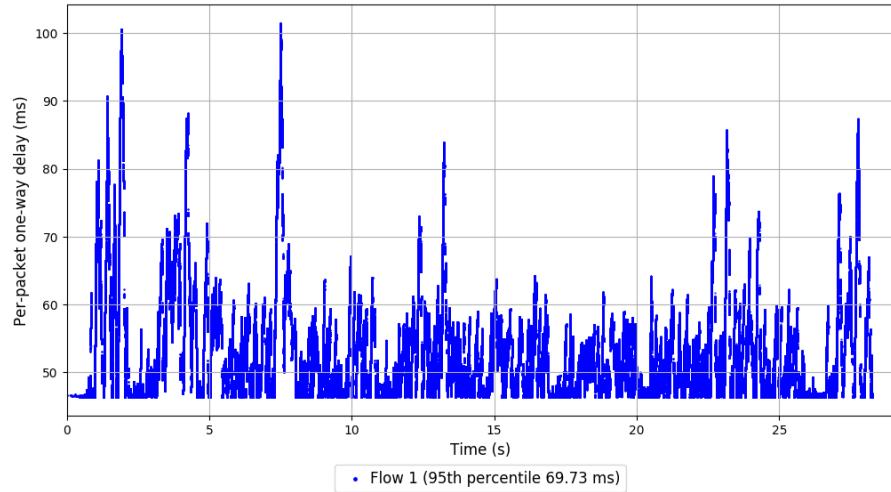
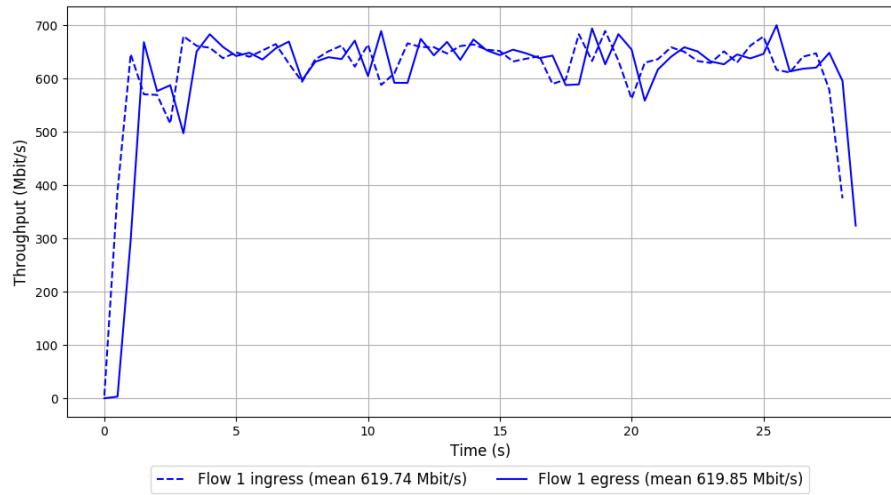


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 18:48:46
End at: 2019-10-03 18:49:16
Local clock offset: -0.053 ms
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-10-03 21:29:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.85 Mbit/s
95th percentile per-packet one-way delay: 69.731 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 619.85 Mbit/s
95th percentile per-packet one-way delay: 69.731 ms
Loss rate: 0.31%
```

Run 3: Report of Indigo-MusesC5 — Data Link

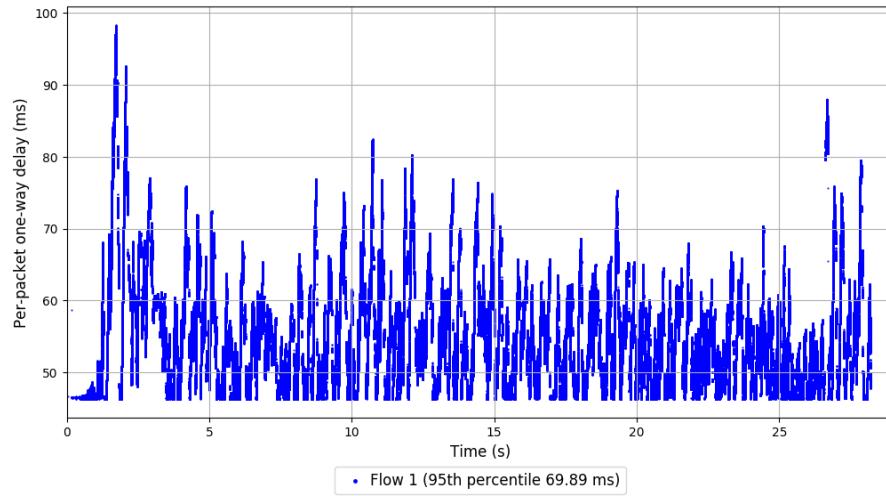
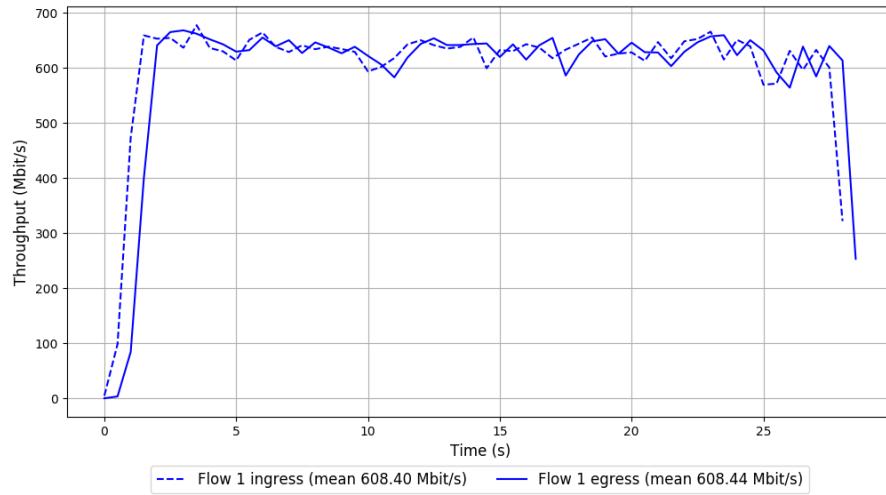


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 19:23:46
End at: 2019-10-03 19:24:16
Local clock offset: -0.048 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-10-03 21:30:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.44 Mbit/s
95th percentile per-packet one-way delay: 69.889 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 608.44 Mbit/s
95th percentile per-packet one-way delay: 69.889 ms
Loss rate: 0.33%
```

Run 4: Report of Indigo-MusesC5 — Data Link

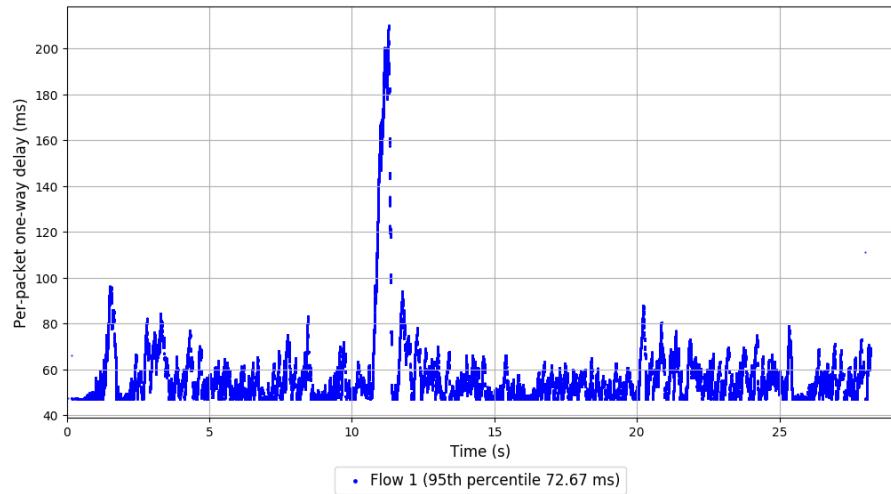
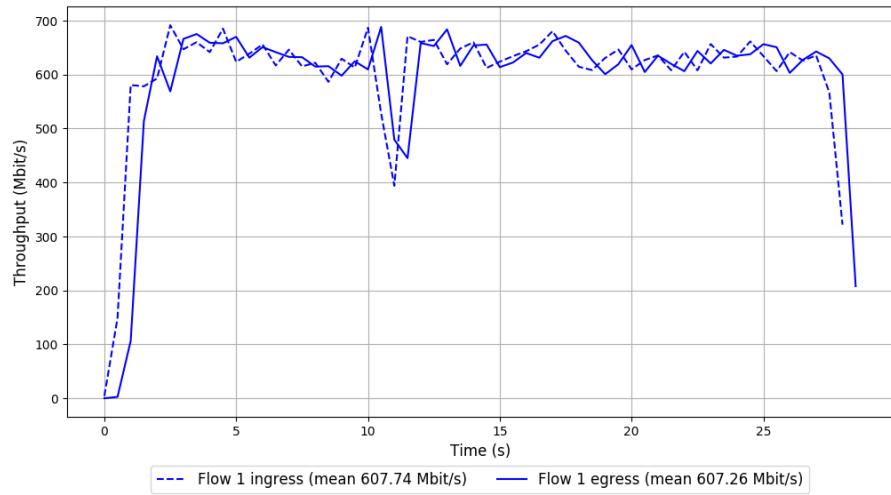


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-10-03 19:58:48
End at: 2019-10-03 19:59:18
Local clock offset: -0.067 ms
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-10-03 21:34:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 607.26 Mbit/s
95th percentile per-packet one-way delay: 72.665 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 607.26 Mbit/s
95th percentile per-packet one-way delay: 72.665 ms
Loss rate: 0.41%
```

Run 5: Report of Indigo-MusesC5 — Data Link

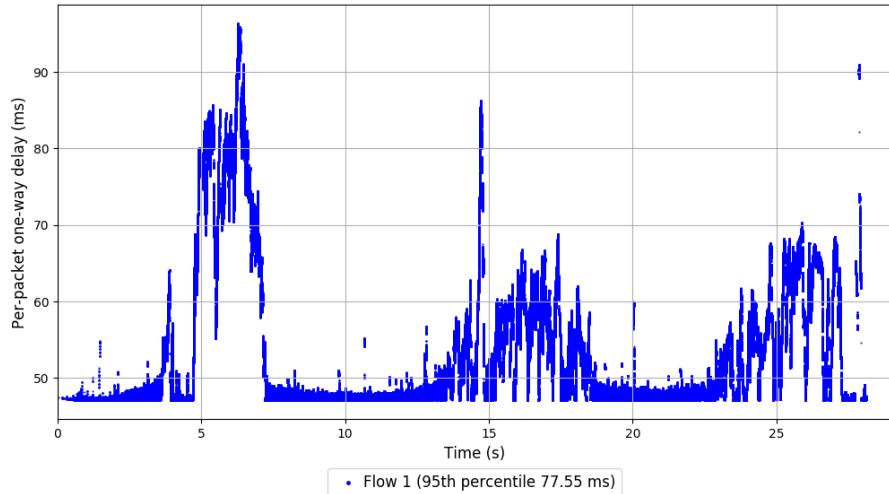
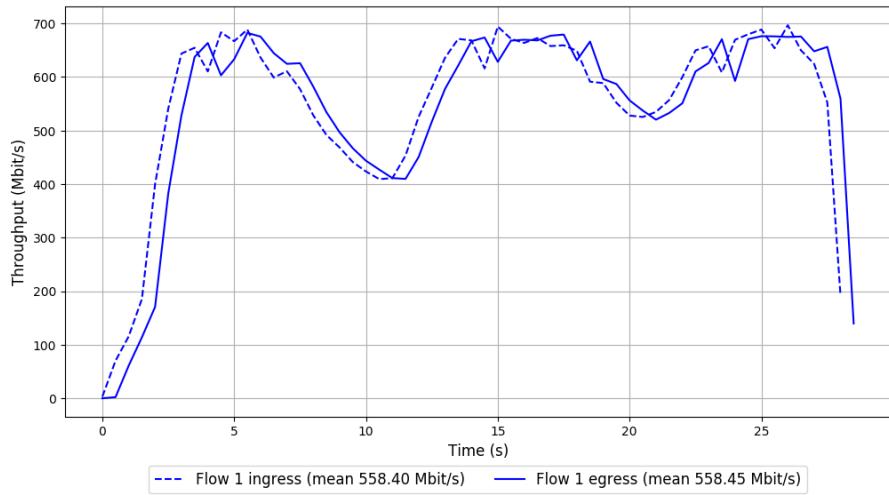


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 17:40:41
End at: 2019-10-03 17:41:11
Local clock offset: 0.007 ms
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-10-03 21:34:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.45 Mbit/s
95th percentile per-packet one-way delay: 77.553 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 558.45 Mbit/s
95th percentile per-packet one-way delay: 77.553 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo-MusesD — Data Link

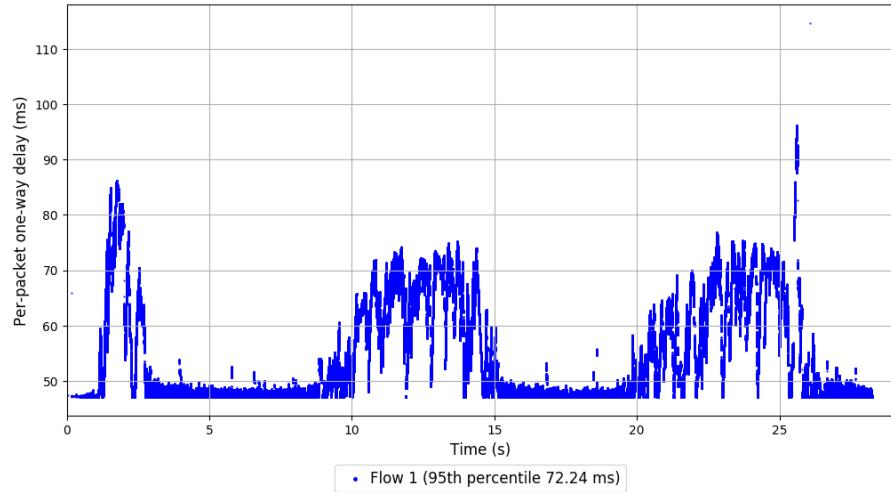
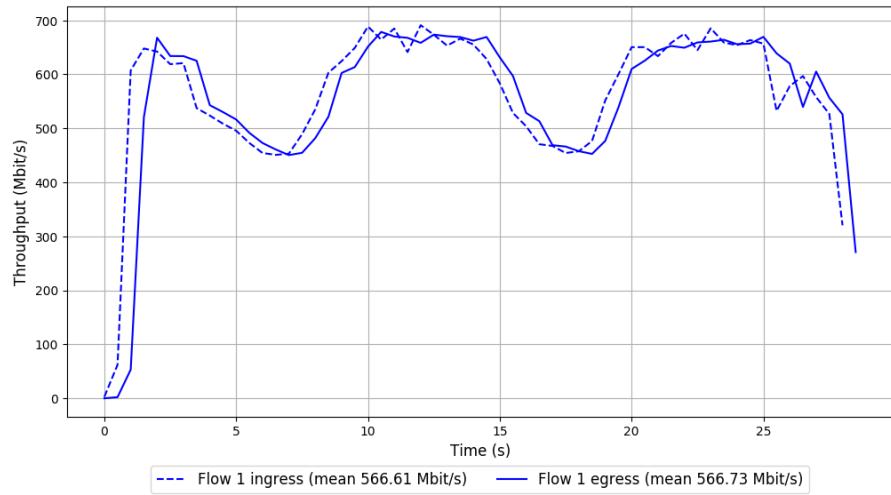


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 18:15:38
End at: 2019-10-03 18:16:08
Local clock offset: -0.017 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-10-03 21:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.73 Mbit/s
95th percentile per-packet one-way delay: 72.241 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 566.73 Mbit/s
95th percentile per-packet one-way delay: 72.241 ms
Loss rate: 0.31%
```

Run 2: Report of Indigo-MusesD — Data Link

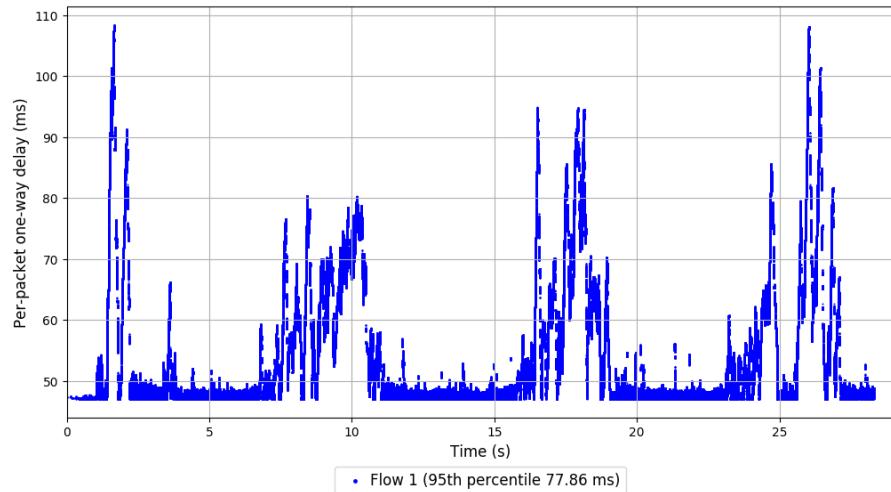
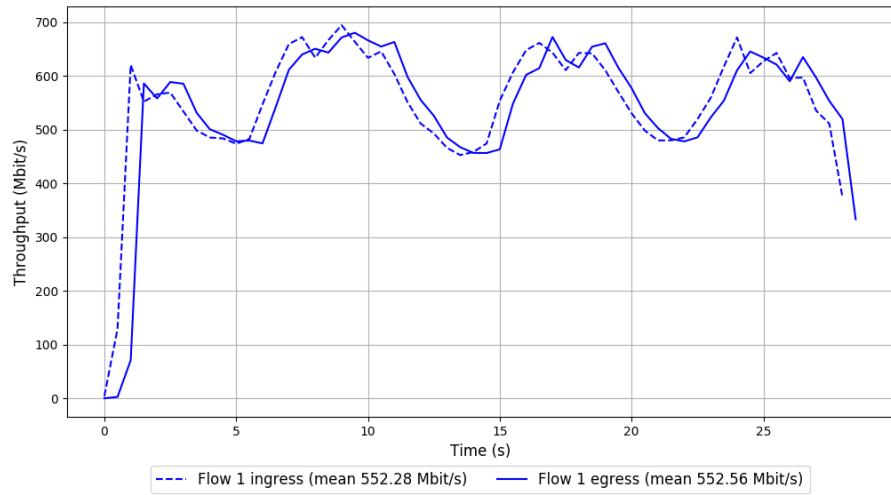


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 18:50:20
End at: 2019-10-03 18:50:51
Local clock offset: -0.062 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-10-03 21:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.56 Mbit/s
95th percentile per-packet one-way delay: 77.859 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 552.56 Mbit/s
95th percentile per-packet one-way delay: 77.859 ms
Loss rate: 0.28%
```

Run 3: Report of Indigo-MusesD — Data Link

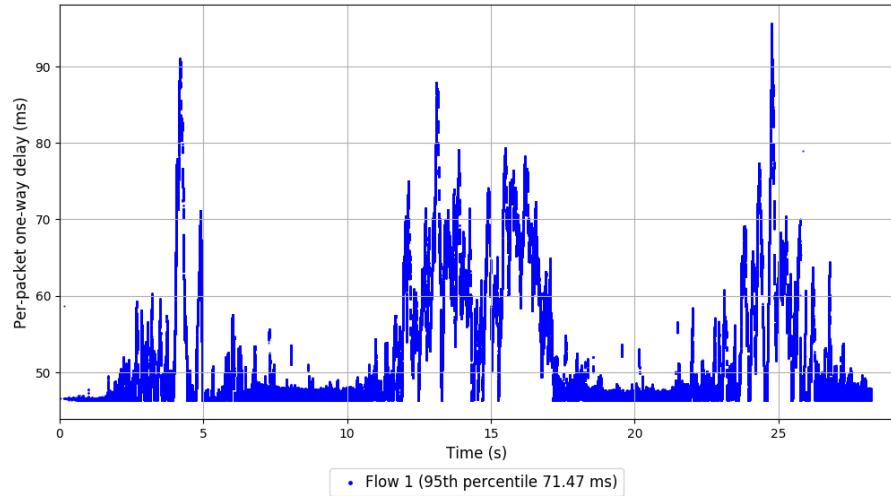
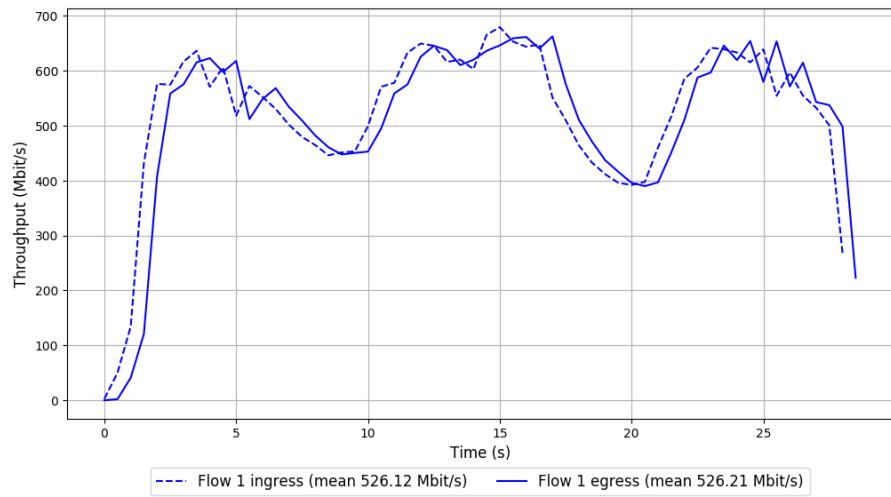


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 19:25:20
End at: 2019-10-03 19:25:50
Local clock offset: -0.015 ms
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-10-03 21:36:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.21 Mbit/s
95th percentile per-packet one-way delay: 71.472 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 526.21 Mbit/s
95th percentile per-packet one-way delay: 71.472 ms
Loss rate: 0.32%
```

Run 4: Report of Indigo-MusesD — Data Link

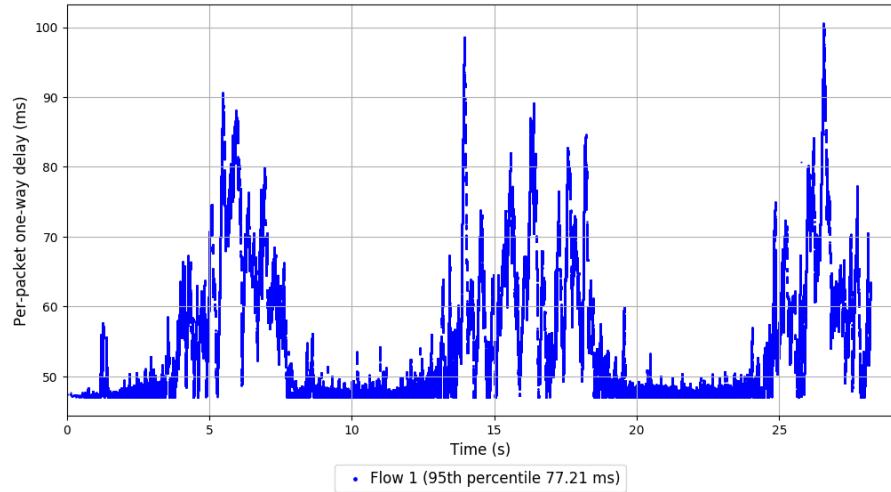
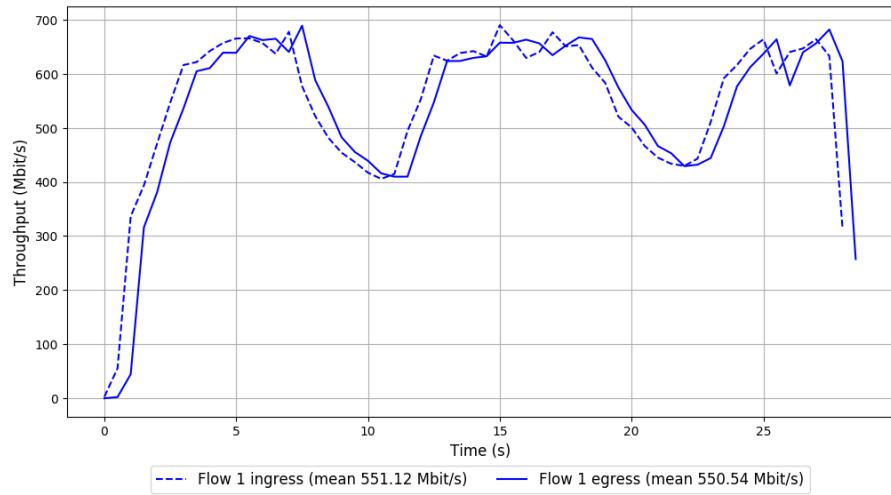


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-10-03 20:00:22
End at: 2019-10-03 20:00:52
Local clock offset: -0.048 ms
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-10-03 21:37:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 550.54 Mbit/s
95th percentile per-packet one-way delay: 77.209 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 550.54 Mbit/s
95th percentile per-packet one-way delay: 77.209 ms
Loss rate: 0.44%
```

Run 5: Report of Indigo-MusesD — Data Link

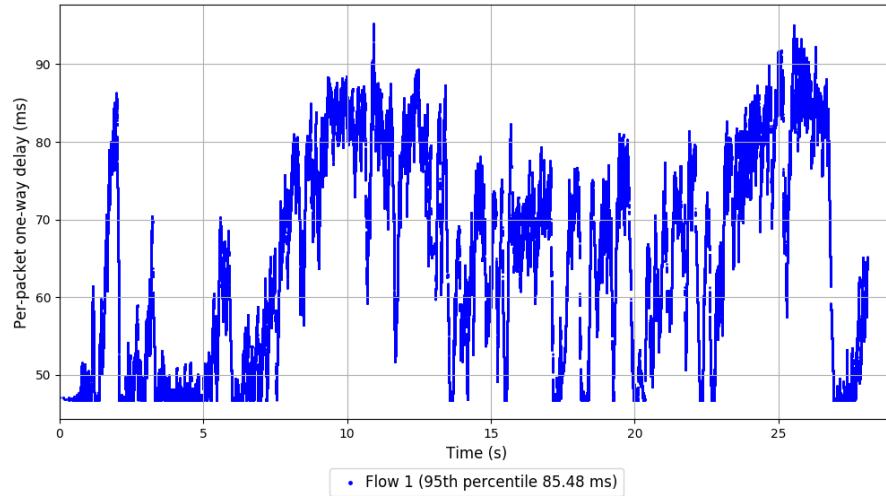
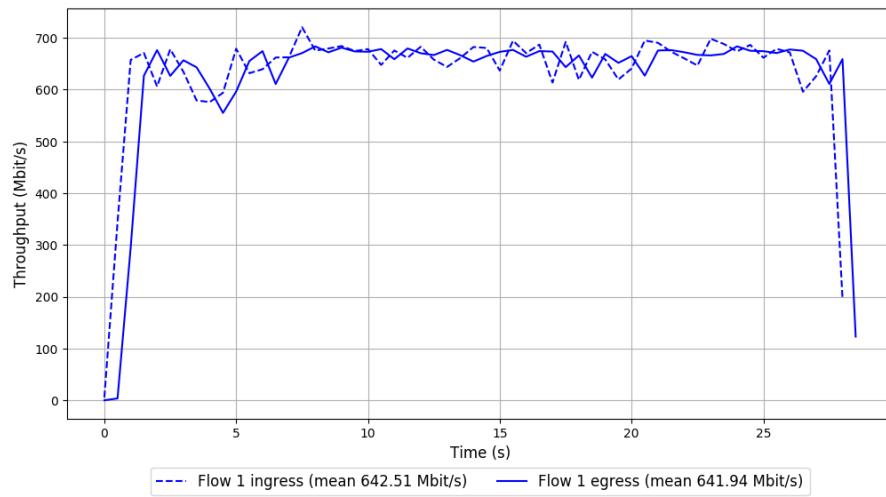


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 17:50:48
End at: 2019-10-03 17:51:19
Local clock offset: 0.409 ms
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-10-03 21:41:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 641.94 Mbit/s
95th percentile per-packet one-way delay: 85.483 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 641.94 Mbit/s
95th percentile per-packet one-way delay: 85.483 ms
Loss rate: 0.43%
```

Run 1: Report of Indigo-MusesT — Data Link

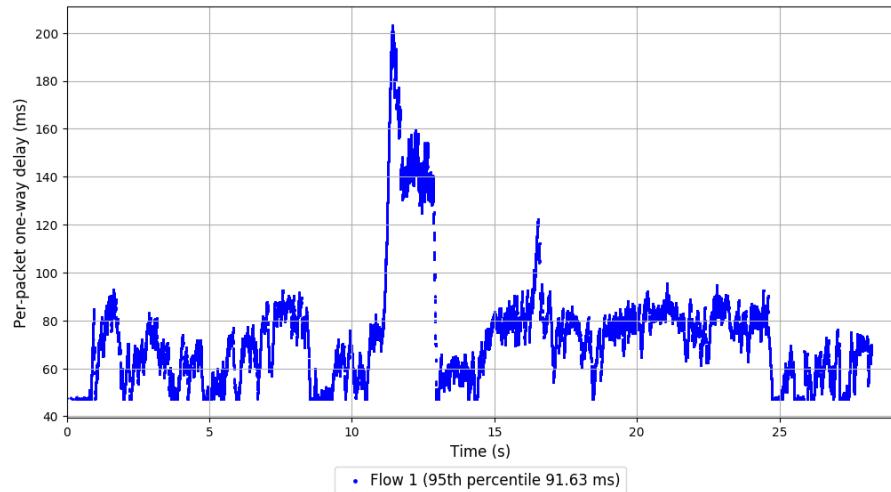
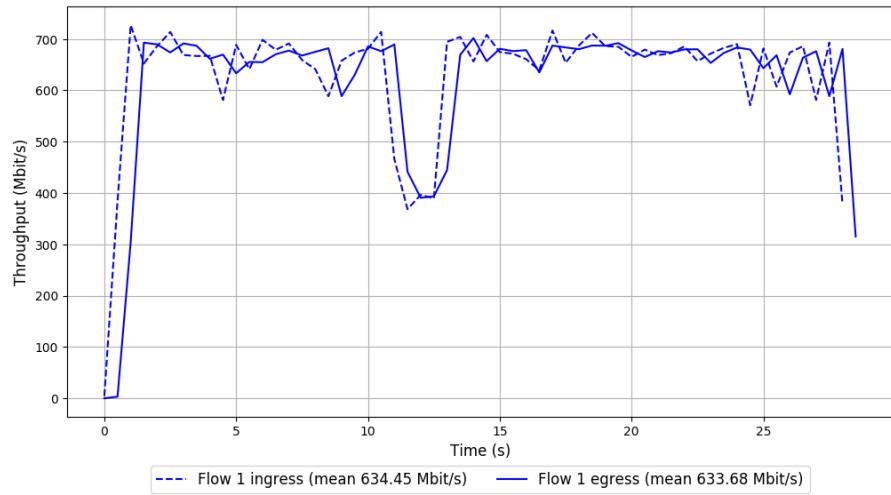


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 18:25:38
End at: 2019-10-03 18:26:08
Local clock offset: -0.034 ms
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-10-03 21:42:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 633.68 Mbit/s
95th percentile per-packet one-way delay: 91.629 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 633.68 Mbit/s
95th percentile per-packet one-way delay: 91.629 ms
Loss rate: 0.46%
```

Run 2: Report of Indigo-MusesT — Data Link

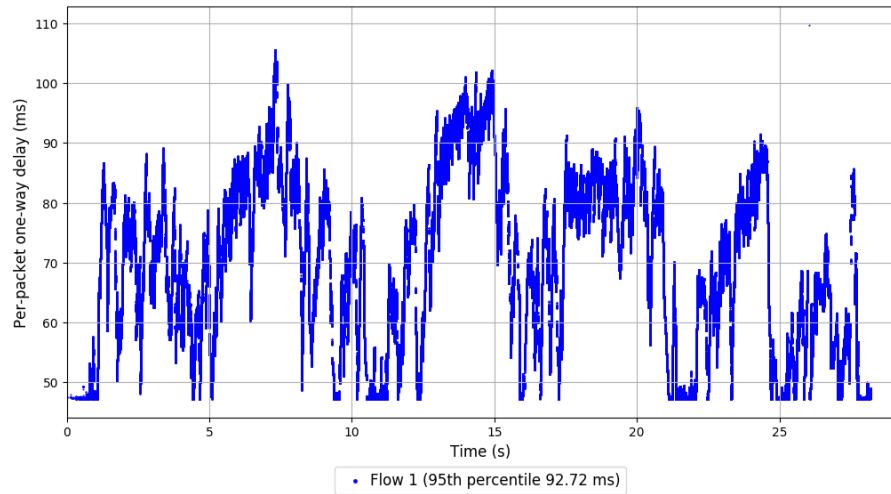
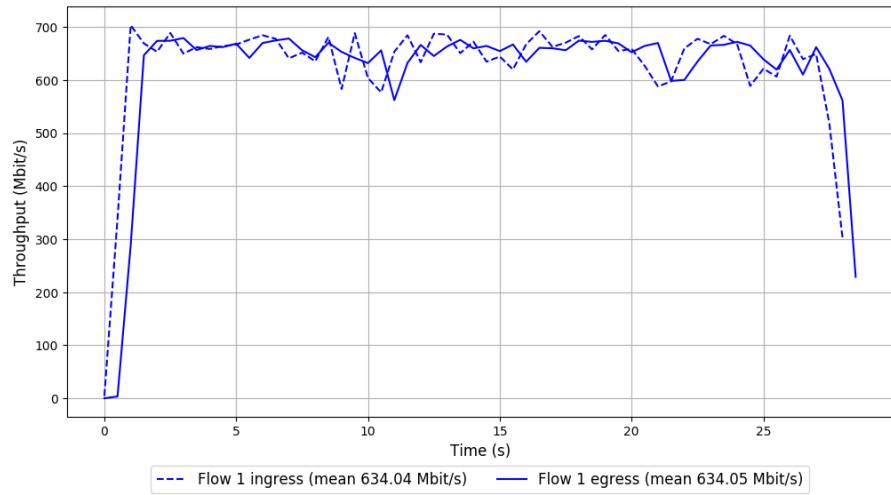


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 19:00:26
End at: 2019-10-03 19:00:56
Local clock offset: -0.033 ms
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-10-03 21:45:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 634.05 Mbit/s
95th percentile per-packet one-way delay: 92.718 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 634.05 Mbit/s
95th percentile per-packet one-way delay: 92.718 ms
Loss rate: 0.34%
```

Run 3: Report of Indigo-MusesT — Data Link

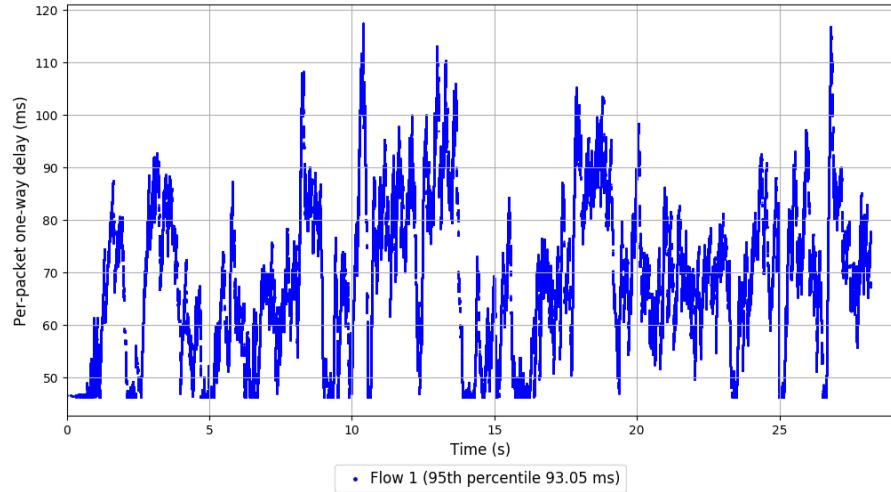
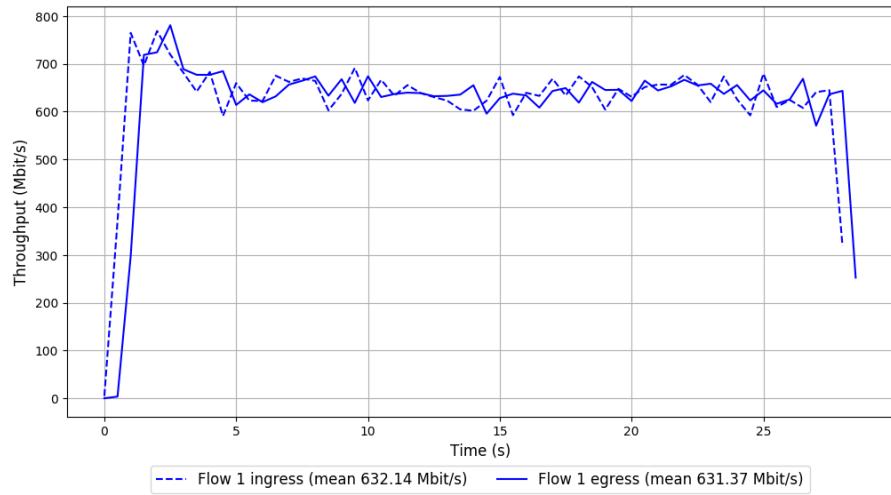


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 19:35:27
End at: 2019-10-03 19:35:57
Local clock offset: -0.013 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-10-03 21:45:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 631.37 Mbit/s
95th percentile per-packet one-way delay: 93.053 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 631.37 Mbit/s
95th percentile per-packet one-way delay: 93.053 ms
Loss rate: 0.45%
```

Run 4: Report of Indigo-MusesT — Data Link

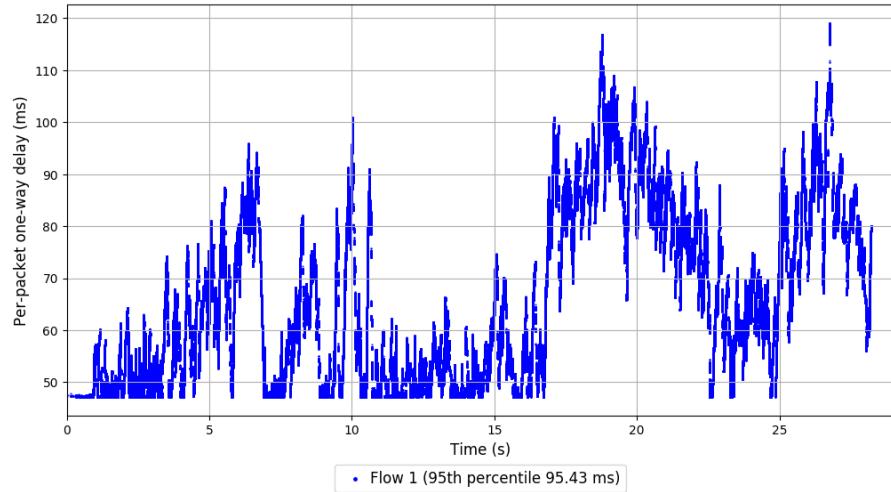
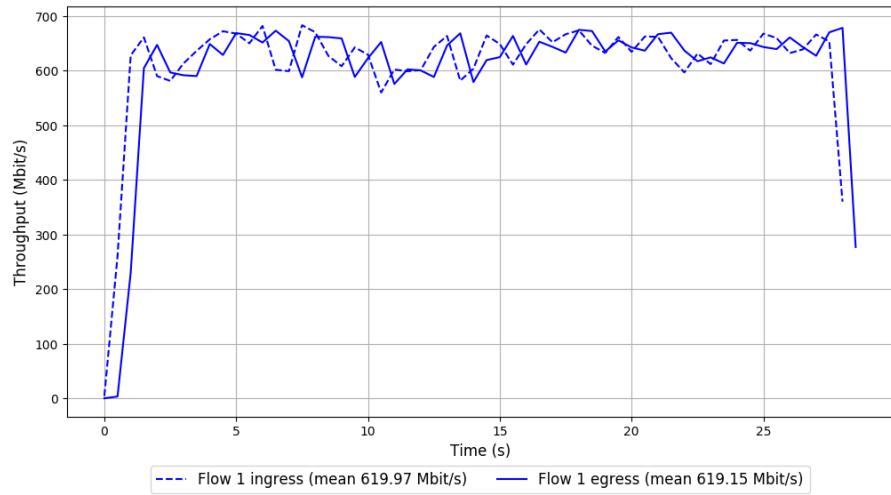


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-10-03 20:10:35
End at: 2019-10-03 20:11:05
Local clock offset: -0.062 ms
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-10-03 21:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 619.15 Mbit/s
95th percentile per-packet one-way delay: 95.431 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 619.15 Mbit/s
95th percentile per-packet one-way delay: 95.431 ms
Loss rate: 0.47%
```

Run 5: Report of Indigo-MusesT — Data Link

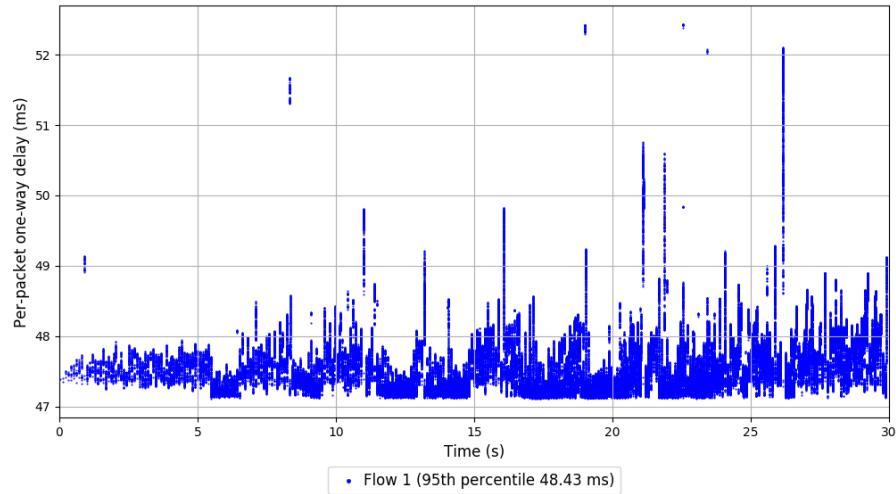
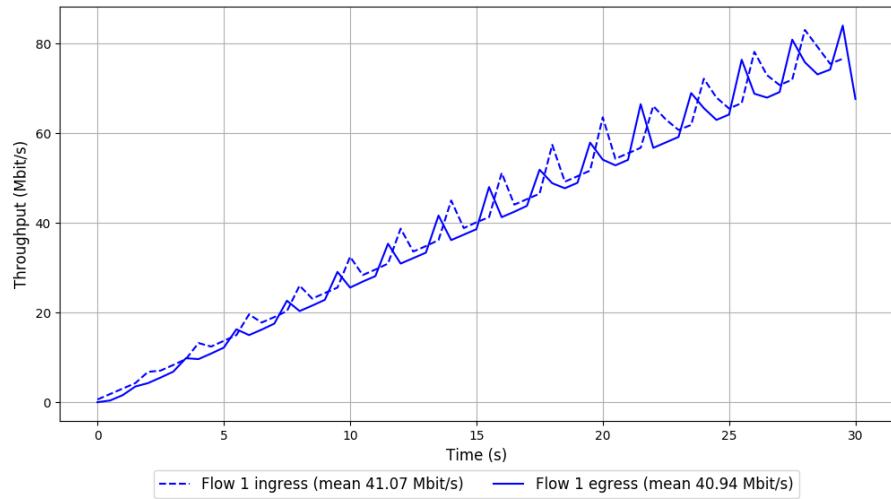


Run 1: Statistics of LEDBAT

```
Start at: 2019-10-03 17:34:58
End at: 2019-10-03 17:35:28
Local clock offset: -0.025 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-10-03 21:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 48.430 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 48.430 ms
Loss rate: 0.63%
```

Run 1: Report of LEDBAT — Data Link

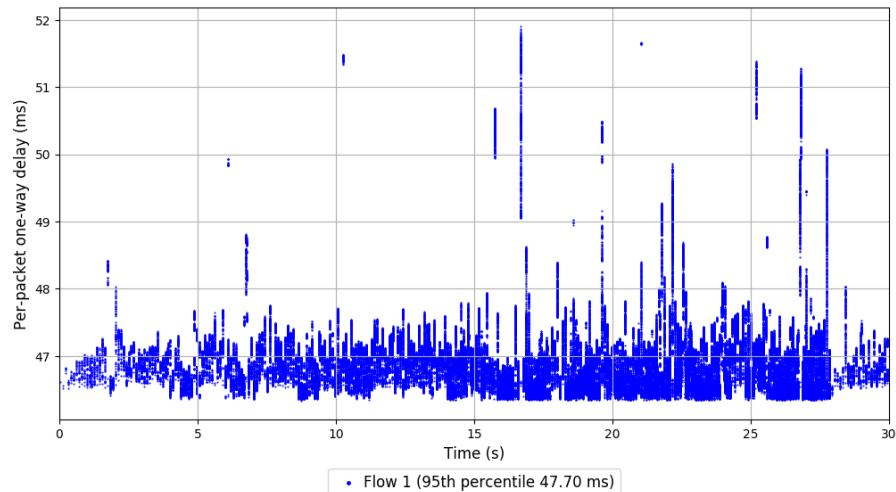
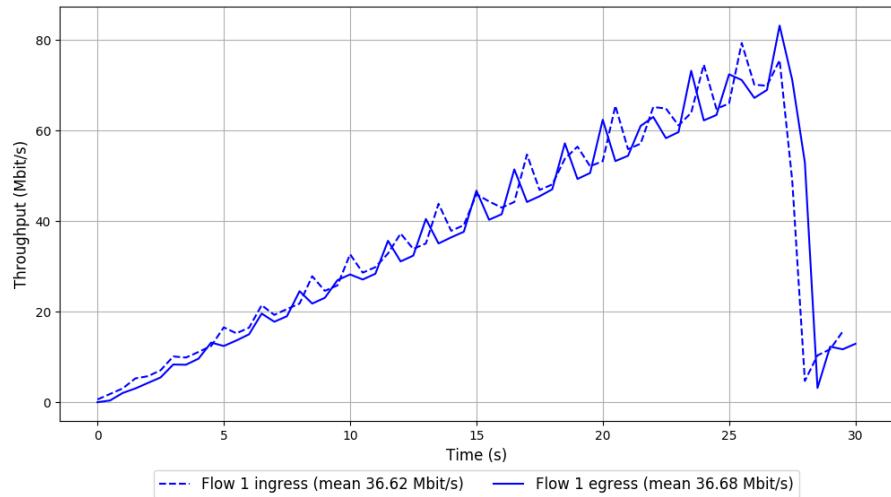


Run 2: Statistics of LEDBAT

```
Start at: 2019-10-03 18:09:47
End at: 2019-10-03 18:10:17
Local clock offset: -0.021 ms
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-10-03 21:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 47.700 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 36.68 Mbit/s
95th percentile per-packet one-way delay: 47.700 ms
Loss rate: 0.12%
```

Run 2: Report of LEDBAT — Data Link

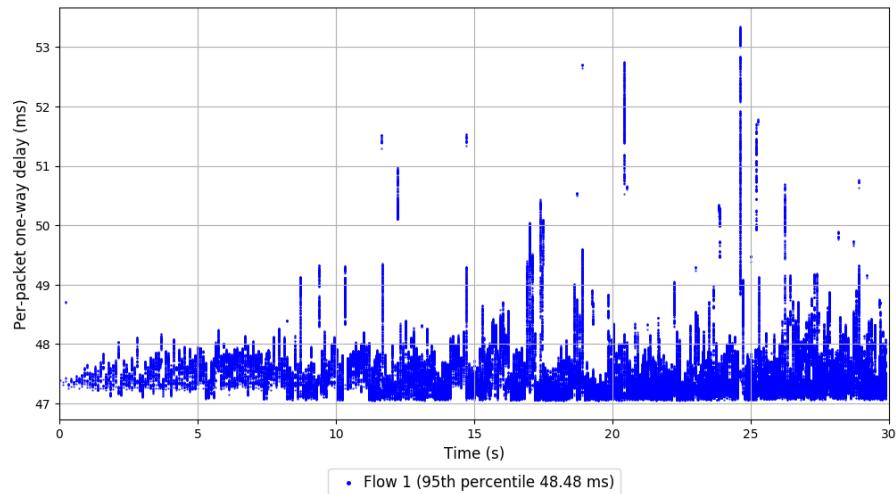
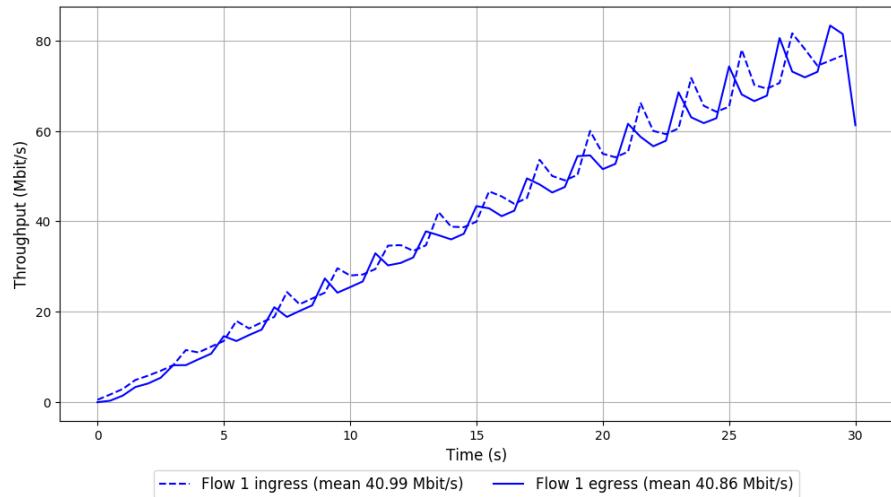


Run 3: Statistics of LEDBAT

```
Start at: 2019-10-03 18:44:34
End at: 2019-10-03 18:45:04
Local clock offset: -0.043 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-10-03 21:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.86 Mbit/s
95th percentile per-packet one-way delay: 48.479 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.86 Mbit/s
95th percentile per-packet one-way delay: 48.479 ms
Loss rate: 0.63%
```

Run 3: Report of LEDBAT — Data Link

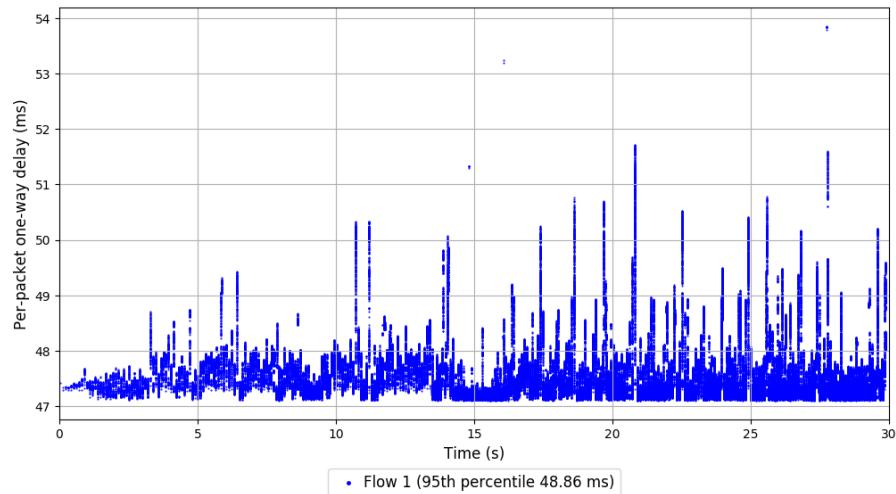
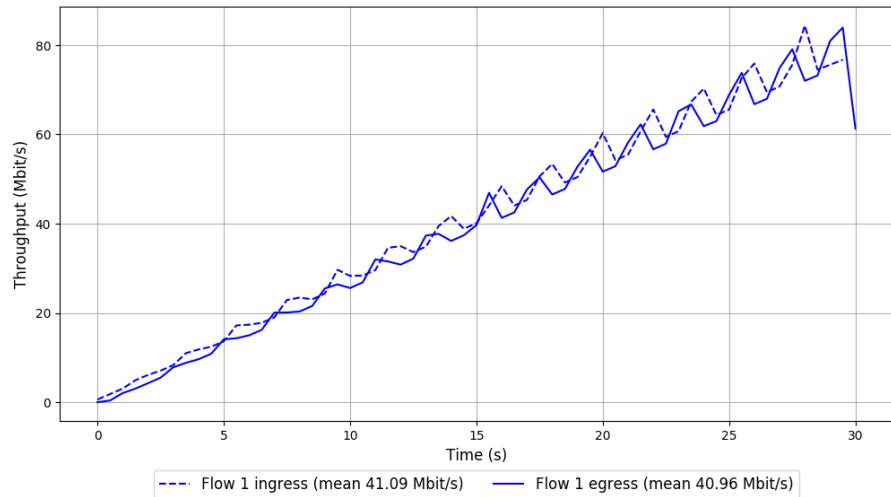


Run 4: Statistics of LEDBAT

```
Start at: 2019-10-03 19:19:37
End at: 2019-10-03 19:20:07
Local clock offset: -0.029 ms
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-10-03 21:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 48.864 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 40.96 Mbit/s
95th percentile per-packet one-way delay: 48.864 ms
Loss rate: 0.63%
```

Run 4: Report of LEDBAT — Data Link

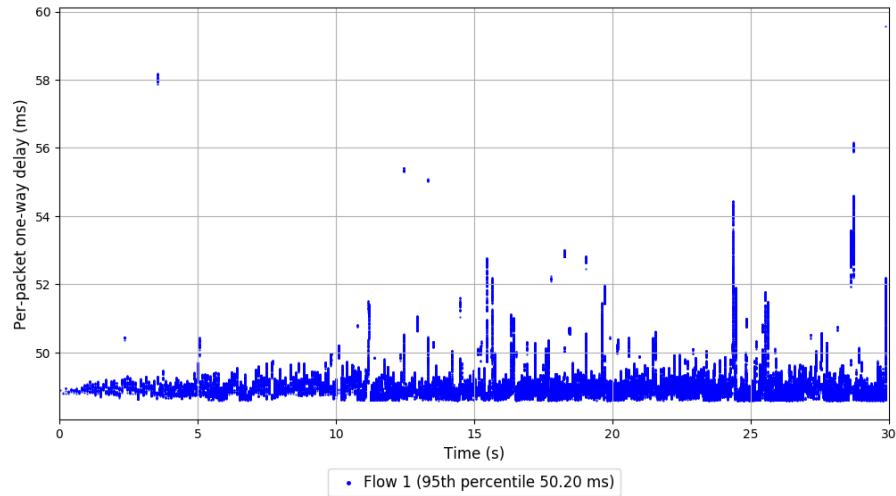
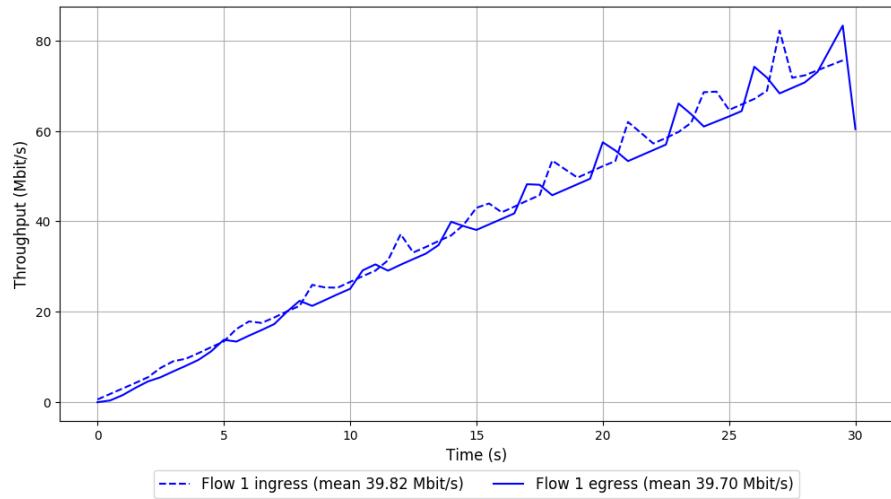


Run 5: Statistics of LEDBAT

```
Start at: 2019-10-03 19:54:36
End at: 2019-10-03 19:55:06
Local clock offset: -0.073 ms
Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-10-03 21:46:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 50.205 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 50.205 ms
Loss rate: 0.64%
```

Run 5: Report of LEDBAT — Data Link

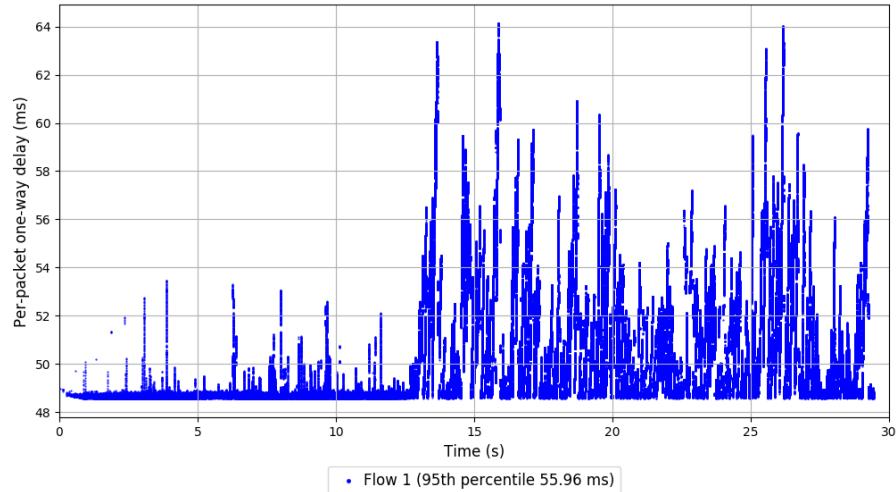
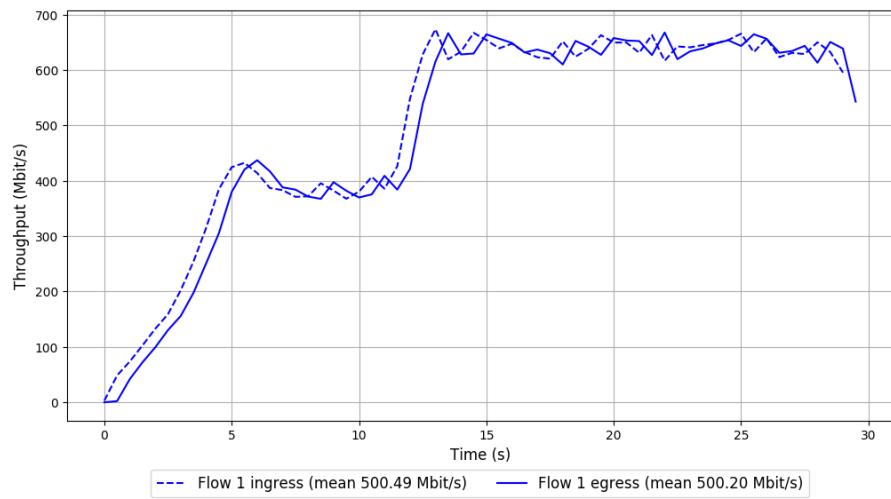


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 17:37:34
End at: 2019-10-03 17:38:04
Local clock offset: -0.044 ms
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-10-03 21:48:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 500.20 Mbit/s
95th percentile per-packet one-way delay: 55.960 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 500.20 Mbit/s
95th percentile per-packet one-way delay: 55.960 ms
Loss rate: 0.38%
```

Run 1: Report of Muses_DecisionTree — Data Link

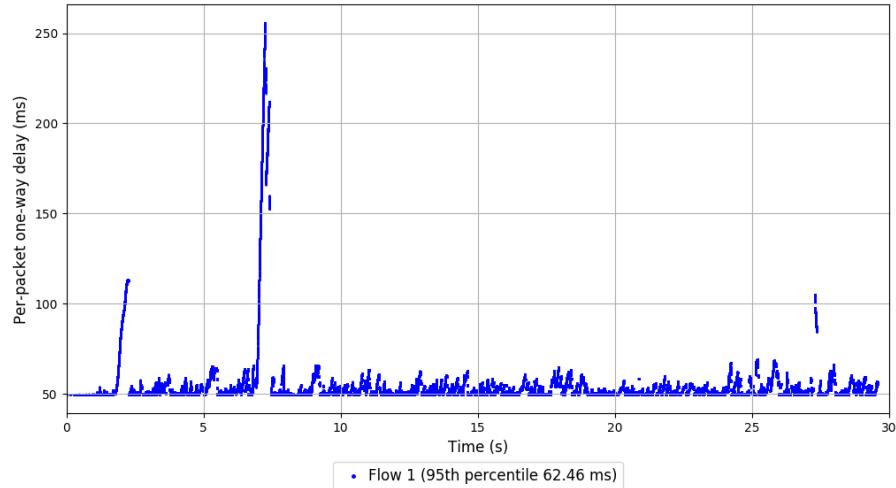
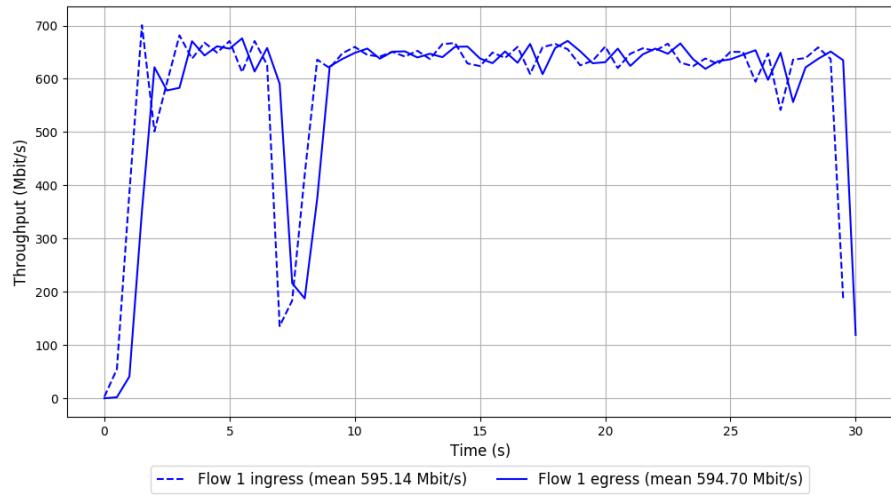


```
Run 2: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 18:12:26
End at: 2019-10-03 18:12:56
Local clock offset: -0.04 ms
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-10-03 21:50:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 594.70 Mbit/s
95th percentile per-packet one-way delay: 62.462 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 594.70 Mbit/s
95th percentile per-packet one-way delay: 62.462 ms
Loss rate: 0.40%
```

Run 2: Report of Muses_DecisionTree — Data Link

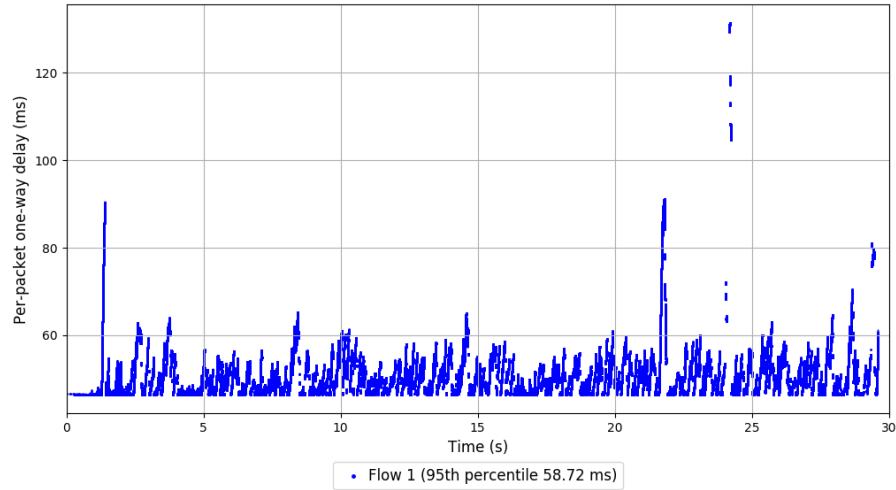
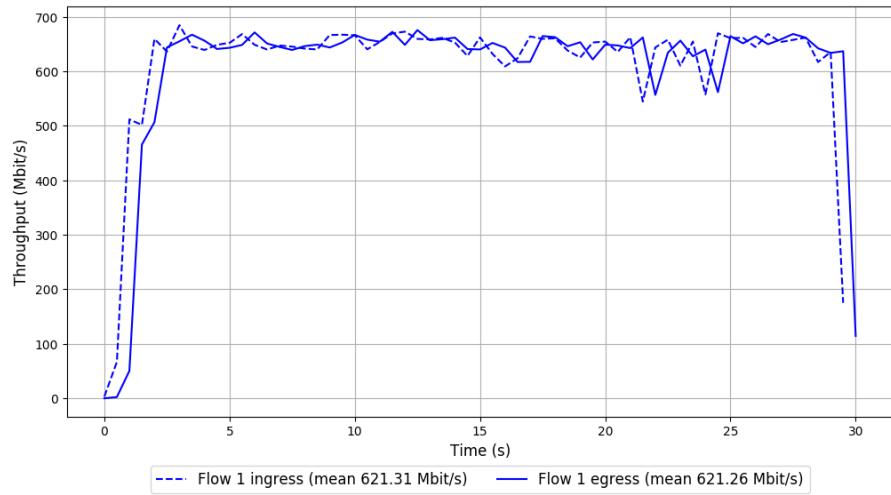


```
Run 3: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-10-03 18:47:09
End at: 2019-10-03 18:47:39
Local clock offset: -0.024 ms
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-10-03 21:52:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 621.26 Mbit/s
95th percentile per-packet one-way delay: 58.720 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 621.26 Mbit/s
95th percentile per-packet one-way delay: 58.720 ms
Loss rate: 0.32%
```

Run 3: Report of Muses_DecisionTree — Data Link

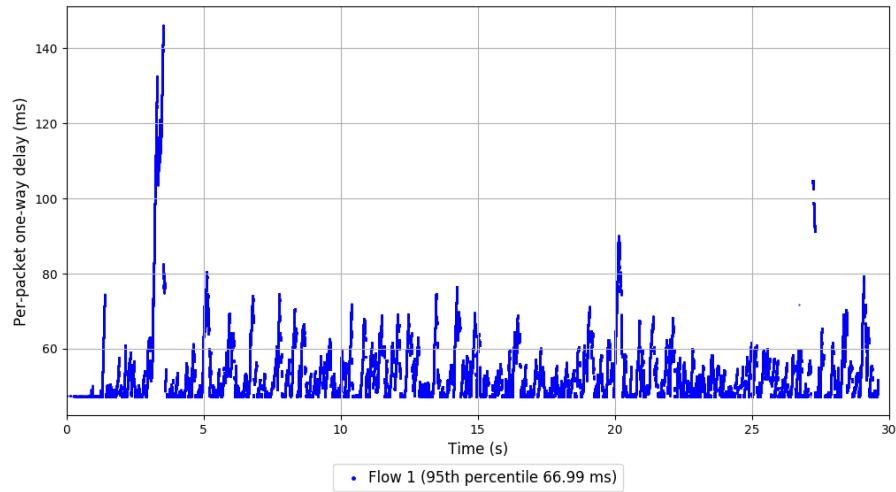
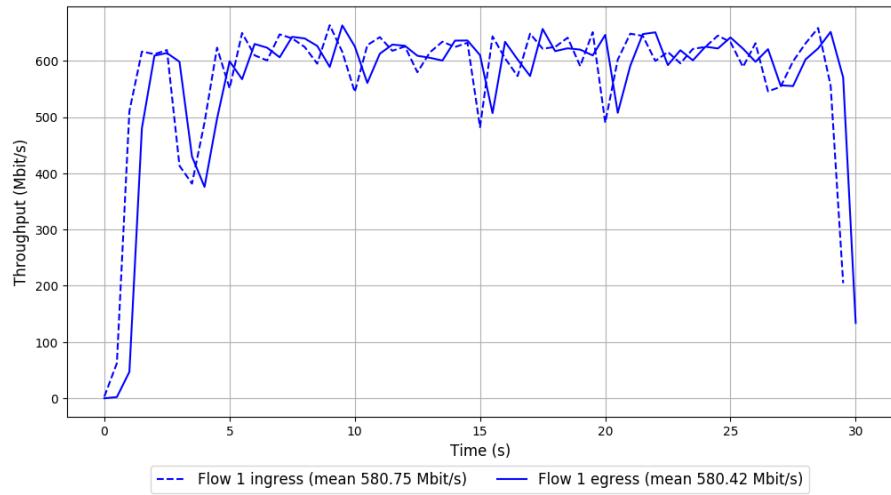


```
Run 4: Statistics of Muses\_DecisionTree
```

```
Start at: 2019-10-03 19:22:11
End at: 2019-10-03 19:22:41
Local clock offset: -0.021 ms
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-10-03 21:53:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 580.42 Mbit/s
95th percentile per-packet one-way delay: 66.989 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 580.42 Mbit/s
95th percentile per-packet one-way delay: 66.989 ms
Loss rate: 0.38%
```

Run 4: Report of Muses_DecisionTree — Data Link

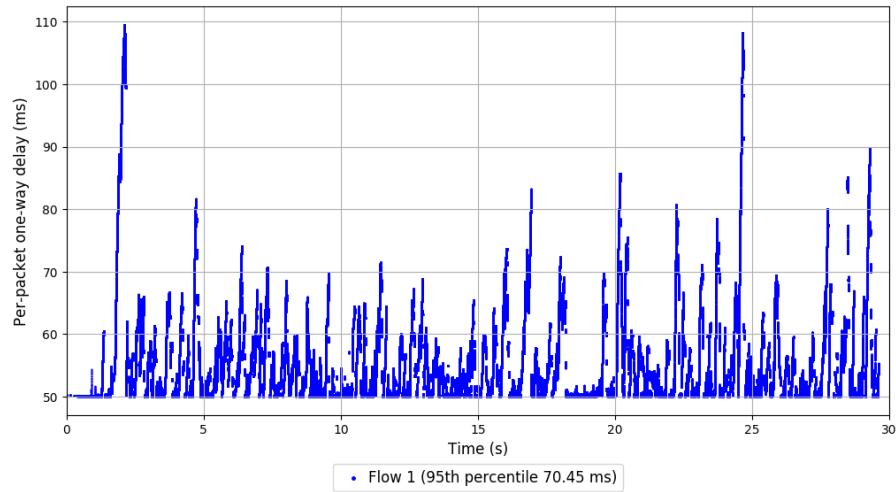
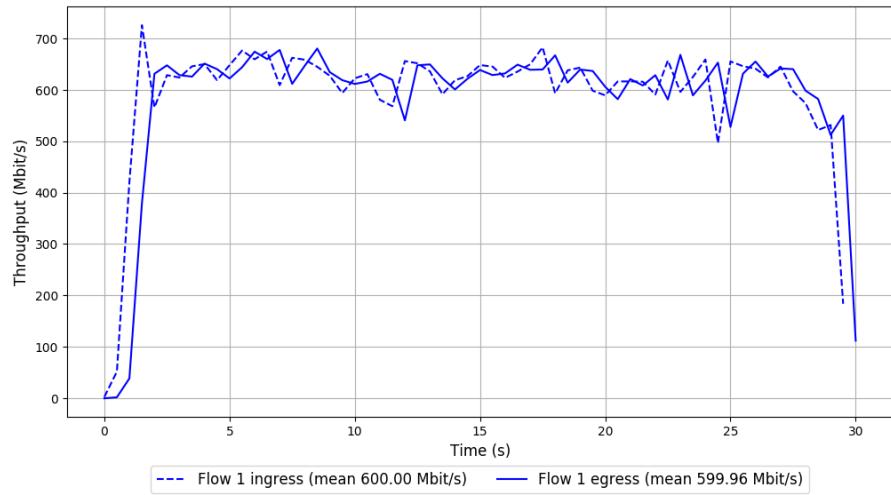


```
Run 5: Statistics of Muses\_DecisionTree

Start at: 2019-10-03 19:57:12
End at: 2019-10-03 19:57:42
Local clock offset: -0.025 ms
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-10-03 21:54:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.96 Mbit/s
95th percentile per-packet one-way delay: 70.450 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 599.96 Mbit/s
95th percentile per-packet one-way delay: 70.450 ms
Loss rate: 0.34%
```

Run 5: Report of Muses_DecisionTree — Data Link

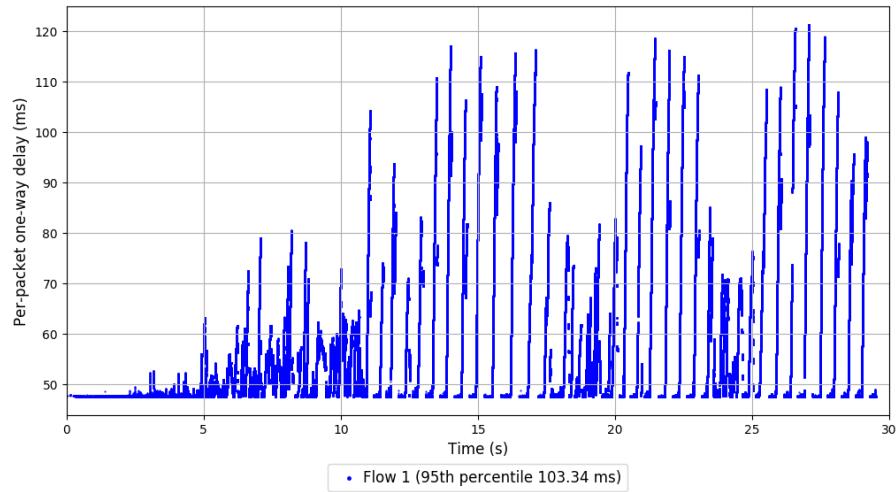
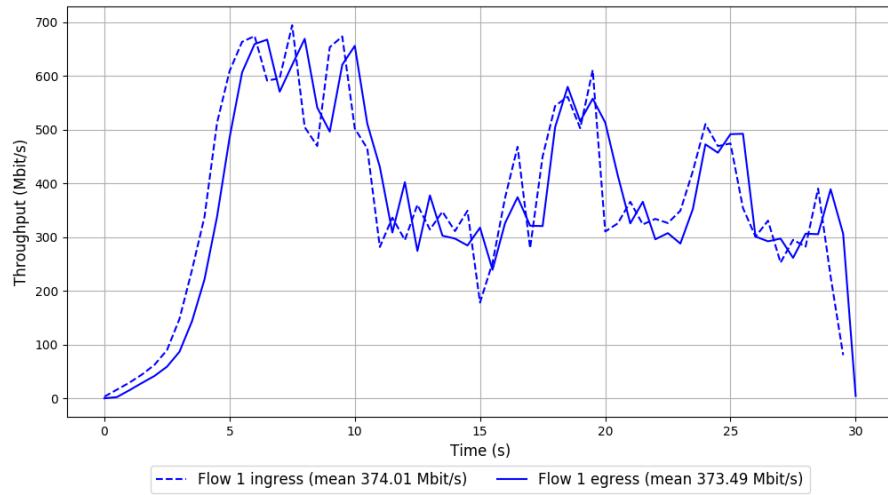


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 17:36:10
End at: 2019-10-03 17:36:40
Local clock offset: 0.354 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-10-03 21:54:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 373.49 Mbit/s
95th percentile per-packet one-way delay: 103.343 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 373.49 Mbit/s
95th percentile per-packet one-way delay: 103.343 ms
Loss rate: 0.46%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

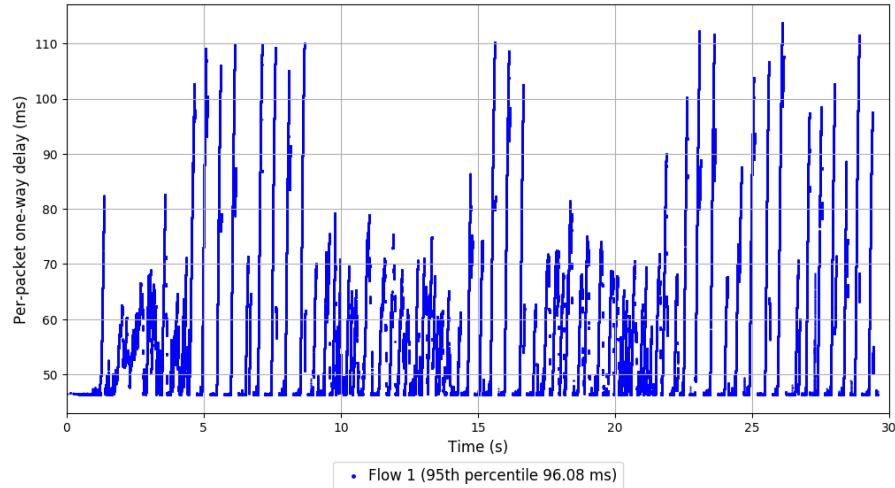
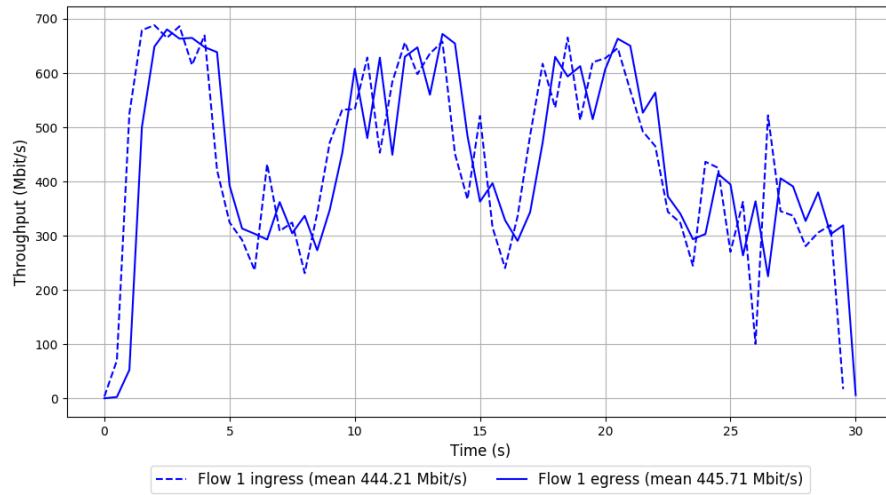


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 18:10:58
End at: 2019-10-03 18:11:28
Local clock offset: -0.062 ms
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-10-03 21:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.71 Mbit/s
95th percentile per-packet one-way delay: 96.082 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 445.71 Mbit/s
95th percentile per-packet one-way delay: 96.082 ms
Loss rate: 0.06%
```

Run 2: Report of Muses_DecisionTreeH0 — Data Link

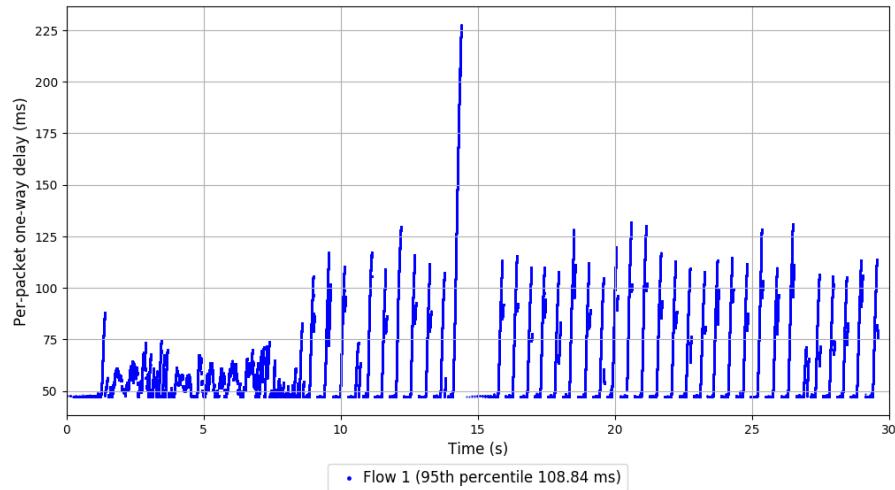
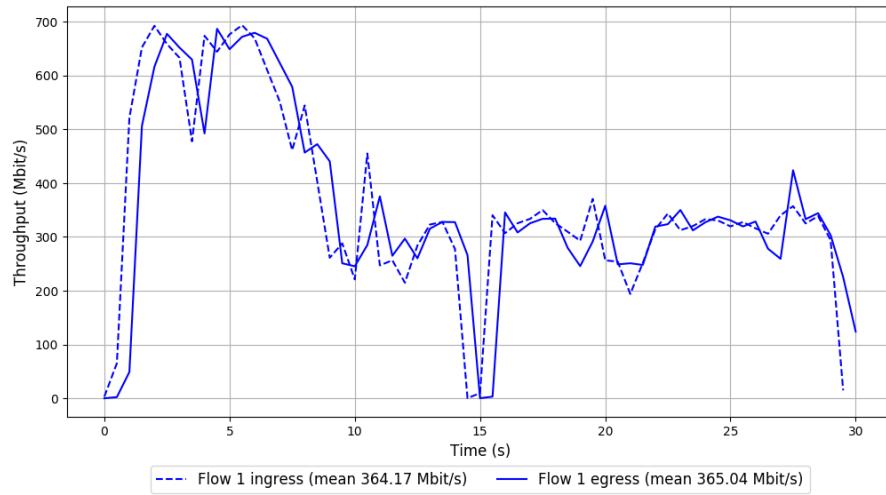


```
Run 3: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 18:45:45
End at: 2019-10-03 18:46:15
Local clock offset: -0.038 ms
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-10-03 21:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.04 Mbit/s
95th percentile per-packet one-way delay: 108.845 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 365.04 Mbit/s
95th percentile per-packet one-way delay: 108.845 ms
Loss rate: 0.09%
```

Run 3: Report of Muses_DecisionTreeH0 — Data Link

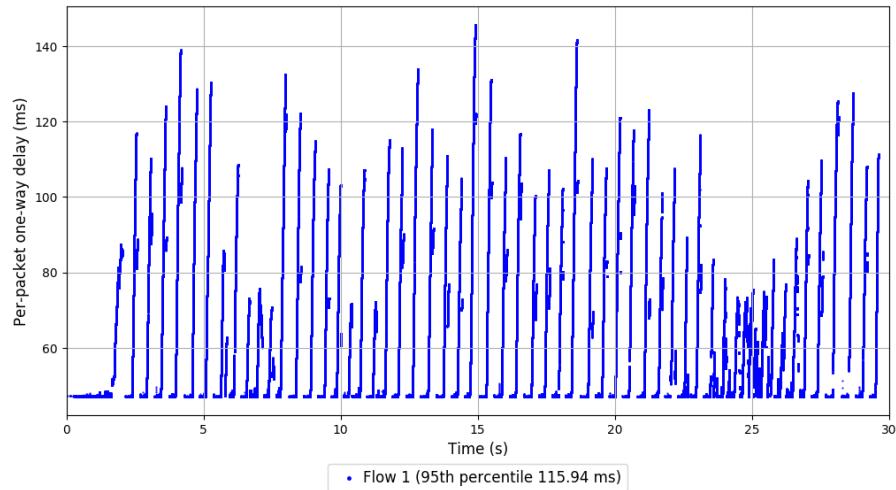
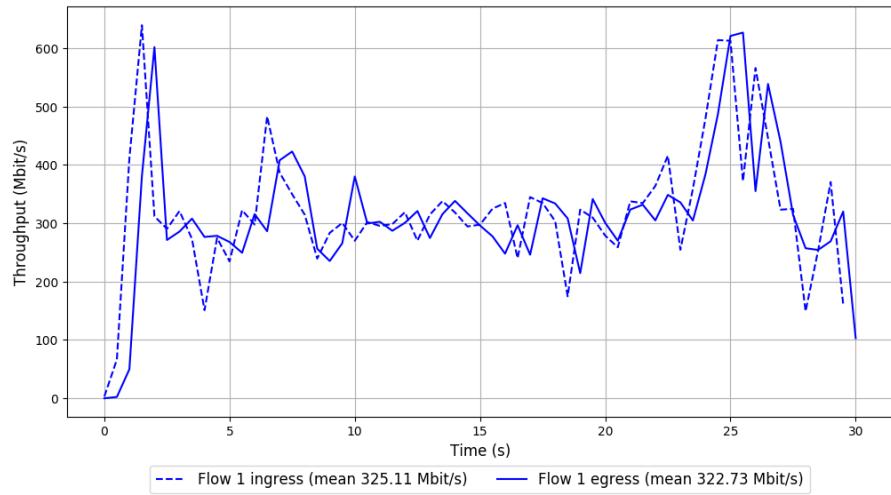


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 19:20:49
End at: 2019-10-03 19:21:19
Local clock offset: 0.004 ms
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-10-03 21:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.73 Mbit/s
95th percentile per-packet one-way delay: 115.945 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 322.73 Mbit/s
95th percentile per-packet one-way delay: 115.945 ms
Loss rate: 0.86%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link

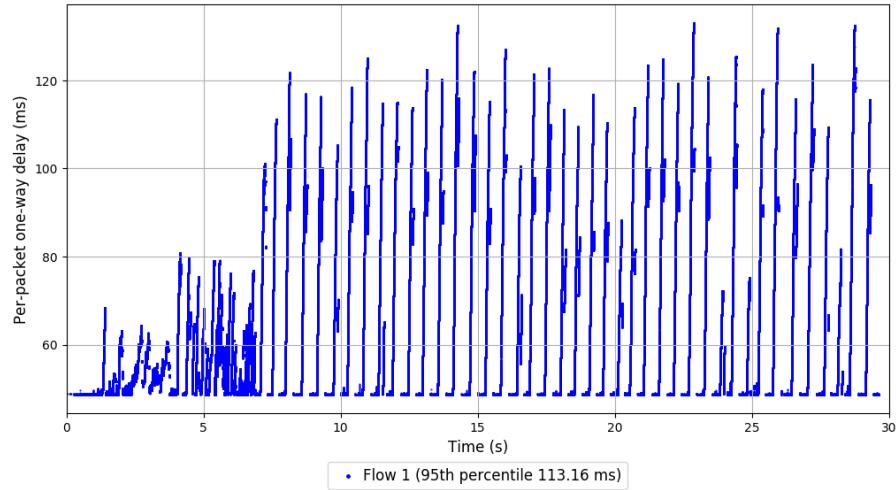
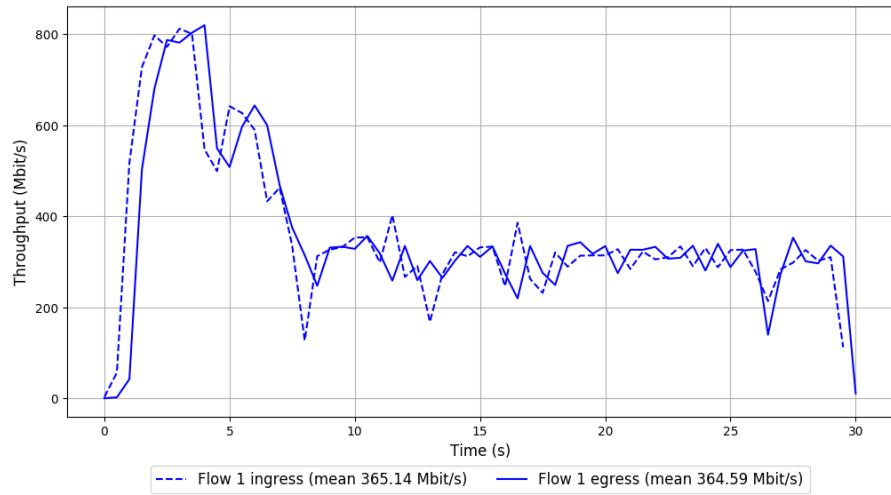


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-10-03 19:55:47
End at: 2019-10-03 19:56:17
Local clock offset: -0.048 ms
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-10-03 21:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.59 Mbit/s
95th percentile per-packet one-way delay: 113.162 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 364.59 Mbit/s
95th percentile per-packet one-way delay: 113.162 ms
Loss rate: 0.47%
```

Run 5: Report of Muses_DecisionTreeH0 — Data Link

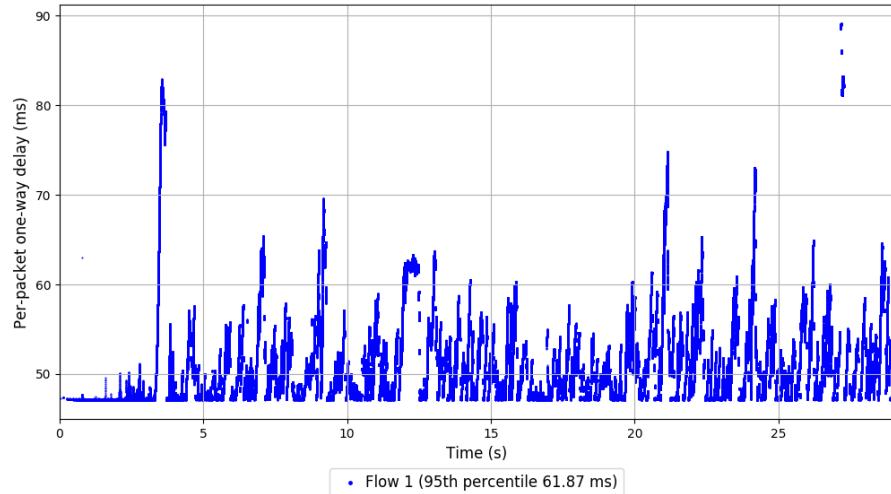
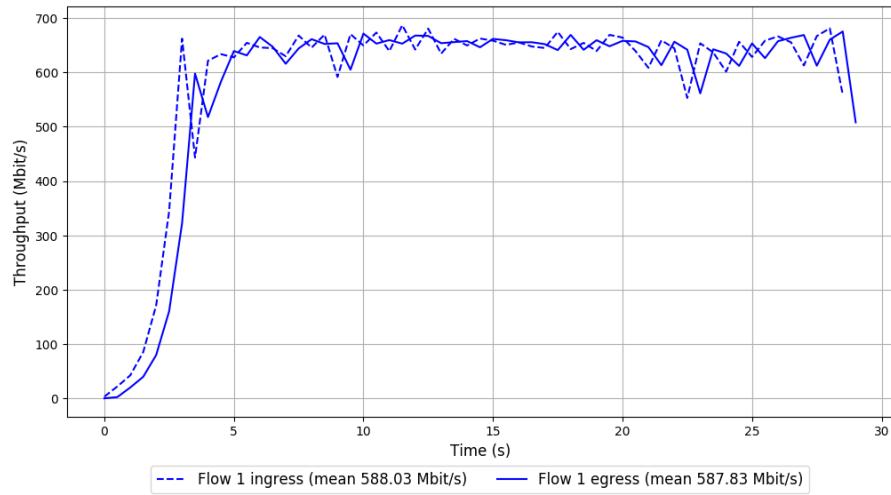


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 17:33:23
End at: 2019-10-03 17:33:53
Local clock offset: -0.022 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-10-03 22:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.83 Mbit/s
95th percentile per-packet one-way delay: 61.865 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 587.83 Mbit/s
95th percentile per-packet one-way delay: 61.865 ms
Loss rate: 0.36%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

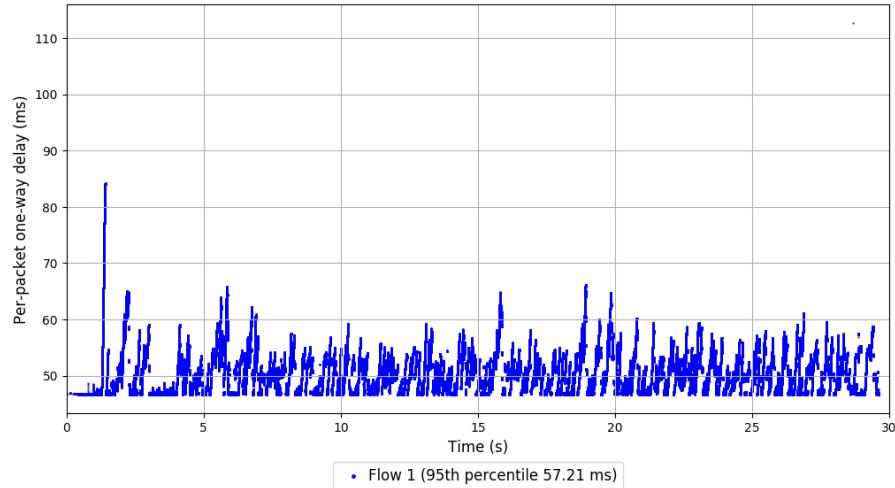
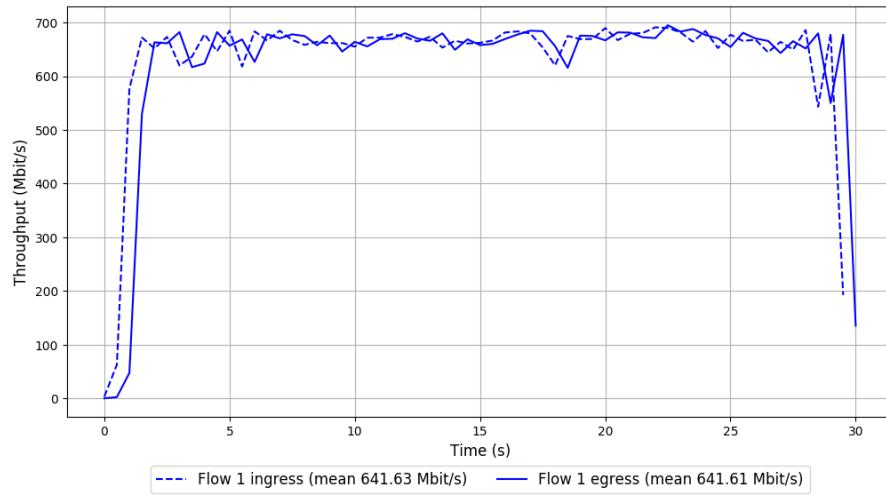


```
Run 2: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 18:08:09
End at: 2019-10-03 18:08:39
Local clock offset: -0.353 ms
Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-10-03 22:05:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 641.61 Mbit/s
95th percentile per-packet one-way delay: 57.214 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 641.61 Mbit/s
95th percentile per-packet one-way delay: 57.214 ms
Loss rate: 0.32%
```

Run 2: Report of Muses_DecisionTreeR0 — Data Link

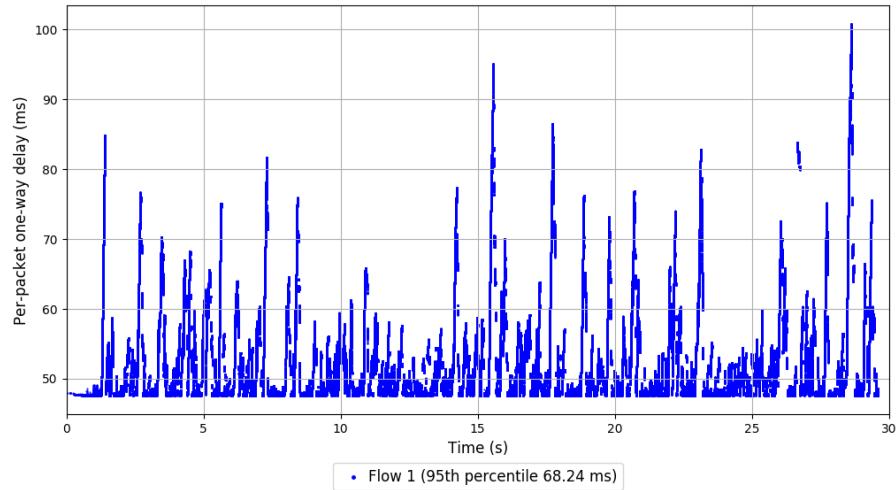
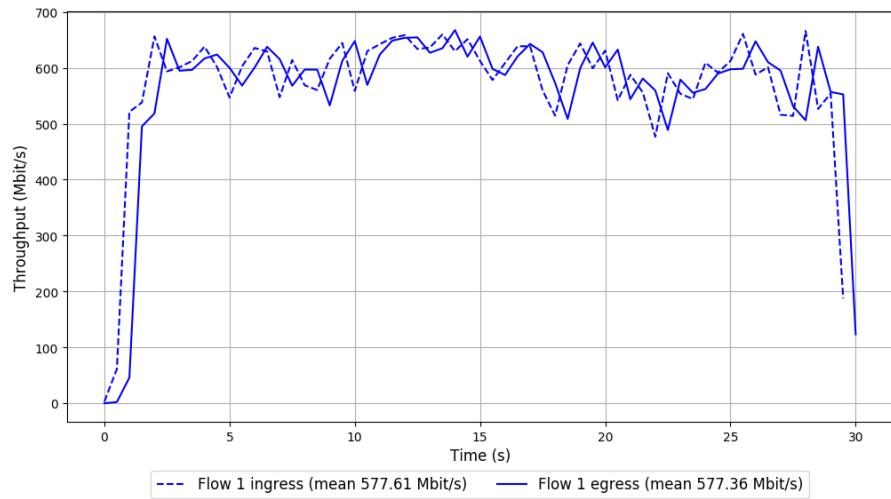


```
Run 3: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 18:42:59
End at: 2019-10-03 18:43:29
Local clock offset: 0.342 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-10-03 22:05:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.36 Mbit/s
95th percentile per-packet one-way delay: 68.238 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 577.36 Mbit/s
95th percentile per-packet one-way delay: 68.238 ms
Loss rate: 0.36%
```

Run 3: Report of Muses_DecisionTreeR0 — Data Link

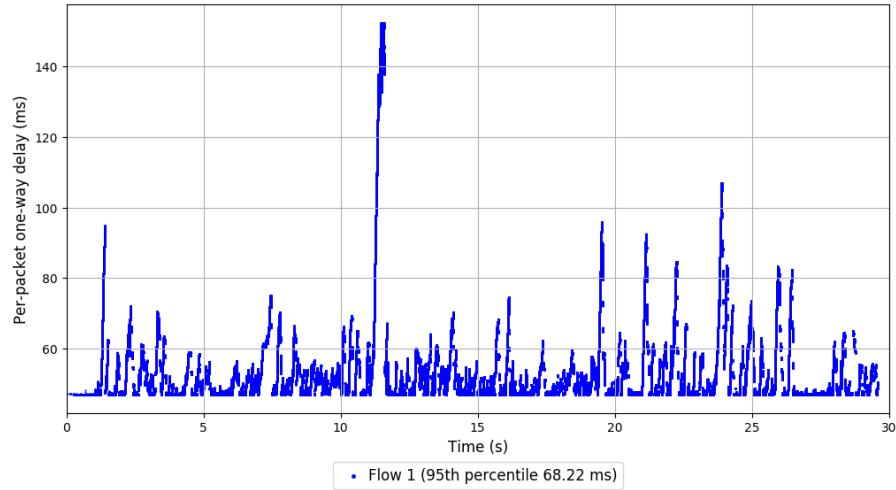
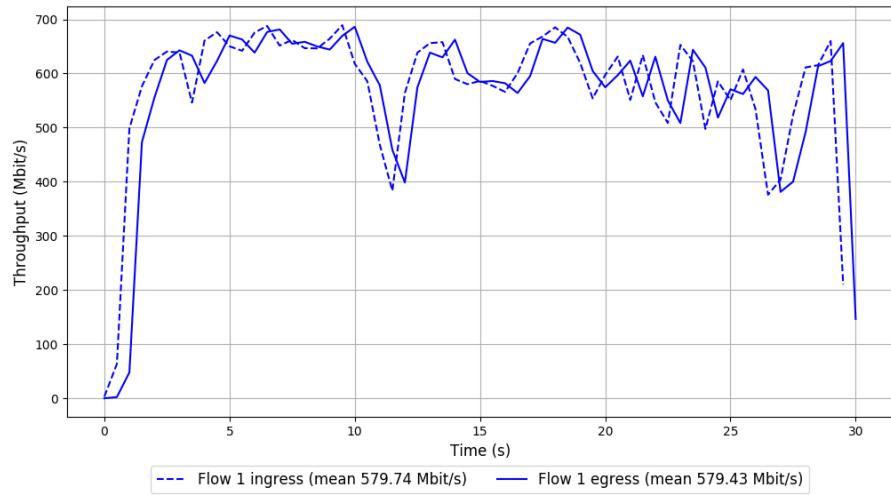


```
Run 4: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 19:18:03
End at: 2019-10-03 19:18:33
Local clock offset: -0.024 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-10-03 22:05:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.43 Mbit/s
95th percentile per-packet one-way delay: 68.222 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 579.43 Mbit/s
95th percentile per-packet one-way delay: 68.222 ms
Loss rate: 0.38%
```

Run 4: Report of Muses_DecisionTreeR0 — Data Link

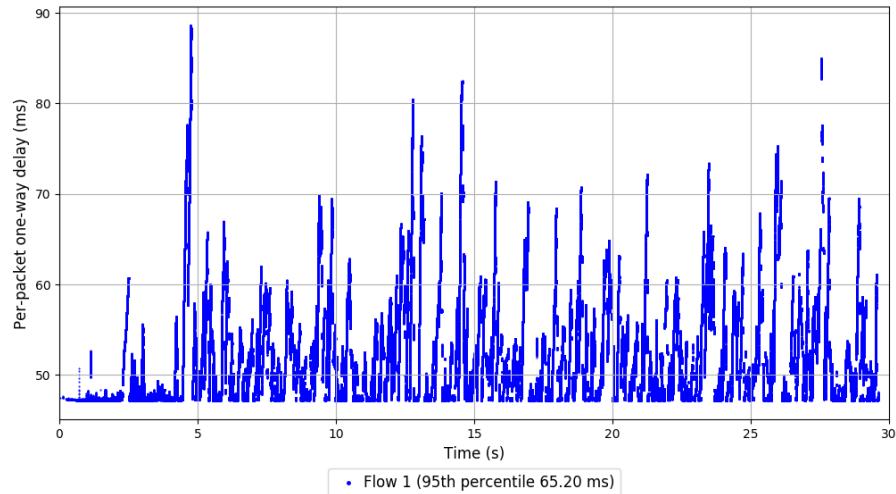
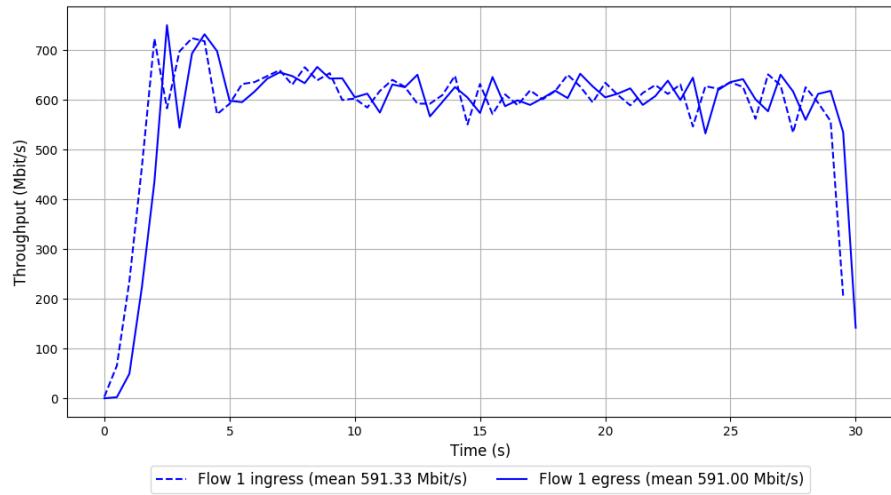


```
Run 5: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 19:53:01
End at: 2019-10-03 19:53:31
Local clock offset: -0.069 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-10-03 22:06:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 591.00 Mbit/s
95th percentile per-packet one-way delay: 65.203 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 591.00 Mbit/s
95th percentile per-packet one-way delay: 65.203 ms
Loss rate: 0.37%
```

Run 5: Report of Muses_DecisionTreeR0 — Data Link

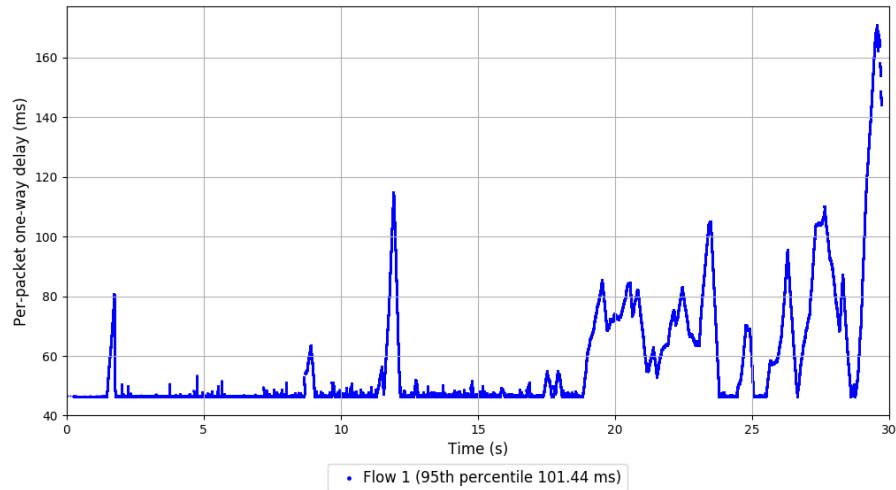
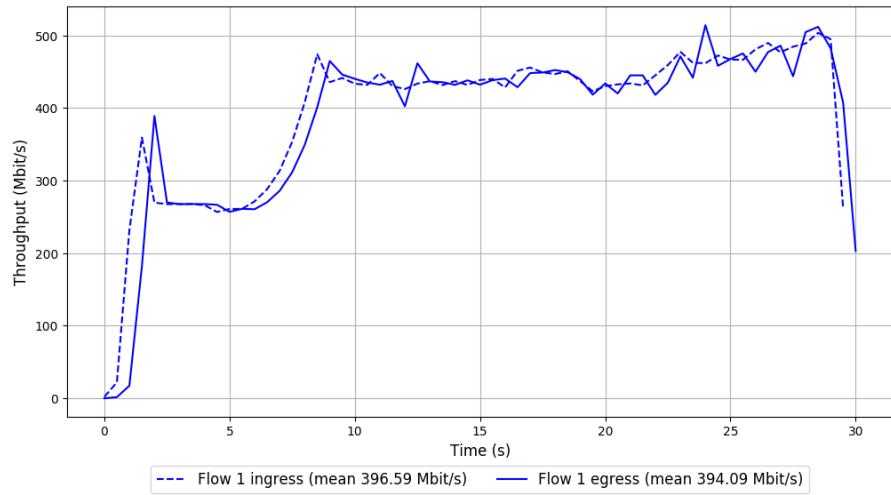


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-10-03 17:45:17
End at: 2019-10-03 17:45:47
Local clock offset: 0.055 ms
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-10-03 22:08:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 394.09 Mbit/s
95th percentile per-packet one-way delay: 101.438 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 394.09 Mbit/s
95th percentile per-packet one-way delay: 101.438 ms
Loss rate: 0.95%
```

Run 1: Report of PCC-Allegro — Data Link

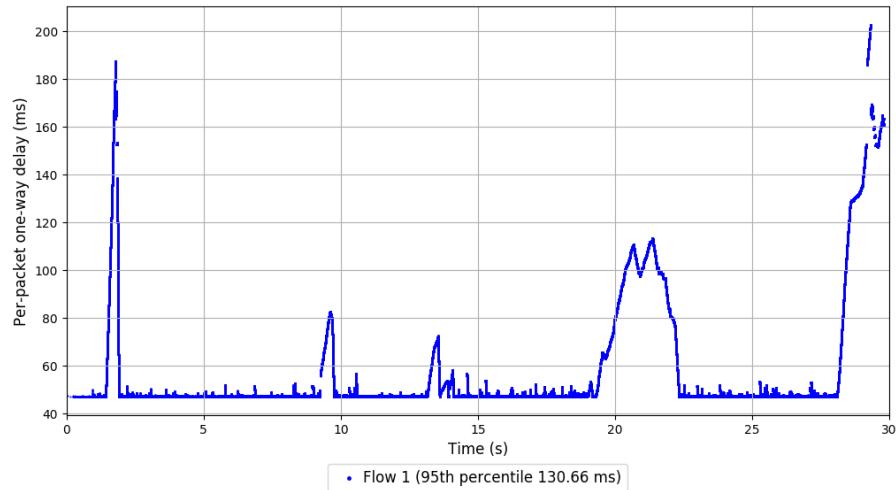
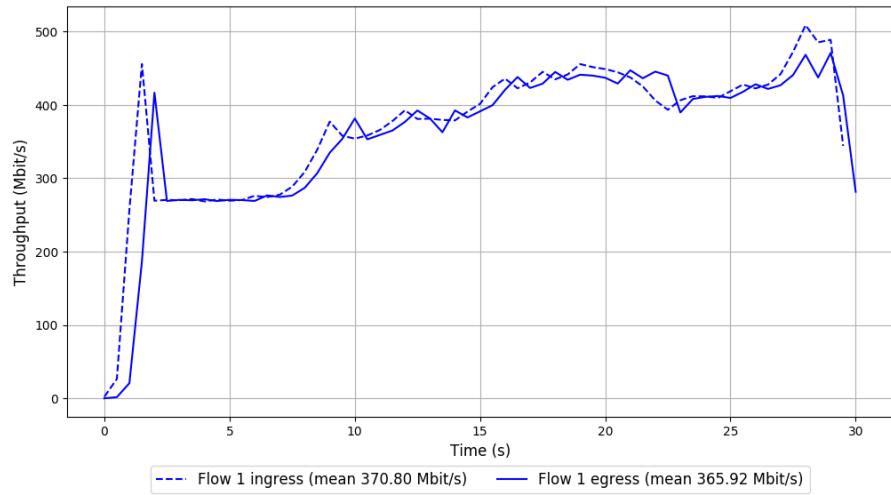


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-10-03 18:20:16
End at: 2019-10-03 18:20:46
Local clock offset: -0.034 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 22:08:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.92 Mbit/s
95th percentile per-packet one-way delay: 130.658 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 365.92 Mbit/s
95th percentile per-packet one-way delay: 130.658 ms
Loss rate: 1.63%
```

Run 2: Report of PCC-Allegro — Data Link

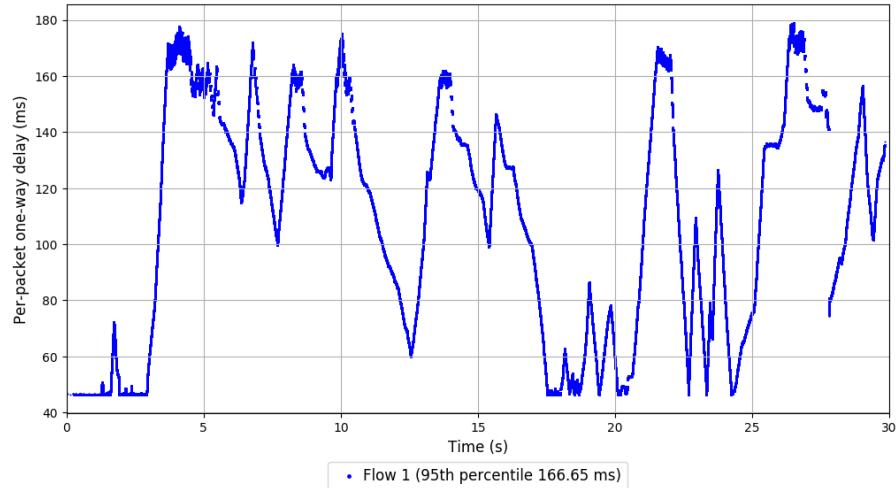
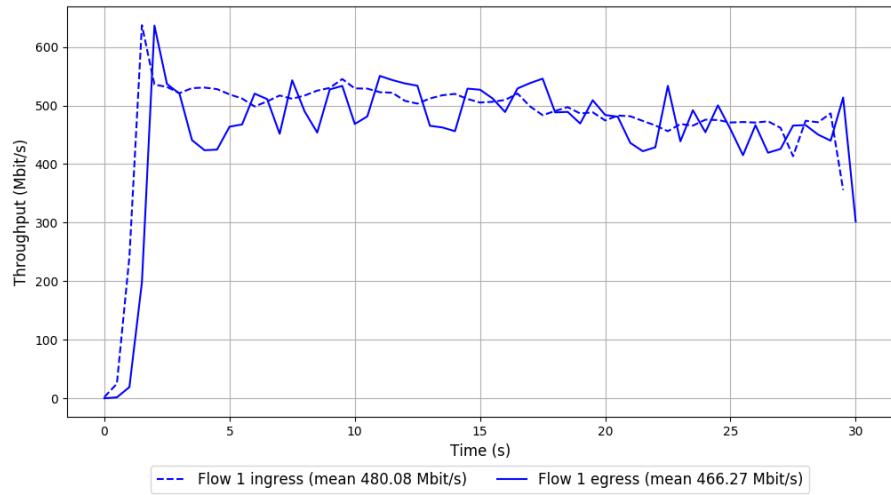


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-10-03 18:54:57
End at: 2019-10-03 18:55:27
Local clock offset: -0.063 ms
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-10-03 22:15:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 466.27 Mbit/s
95th percentile per-packet one-way delay: 166.646 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 466.27 Mbit/s
95th percentile per-packet one-way delay: 166.646 ms
Loss rate: 3.18%
```

Run 3: Report of PCC-Allegro — Data Link

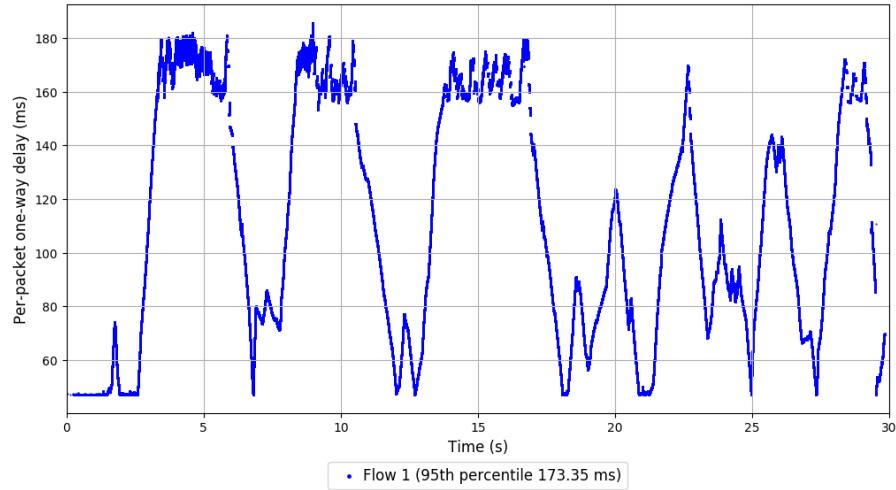
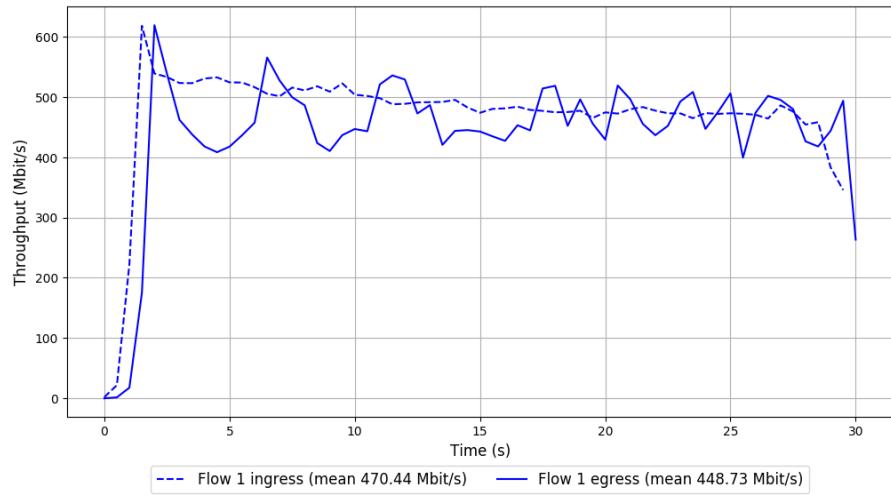


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-10-03 19:29:53
End at: 2019-10-03 19:30:23
Local clock offset: -0.026 ms
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-10-03 22:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.73 Mbit/s
95th percentile per-packet one-way delay: 173.352 ms
Loss rate: 4.92%
-- Flow 1:
Average throughput: 448.73 Mbit/s
95th percentile per-packet one-way delay: 173.352 ms
Loss rate: 4.92%
```

Run 4: Report of PCC-Allegro — Data Link

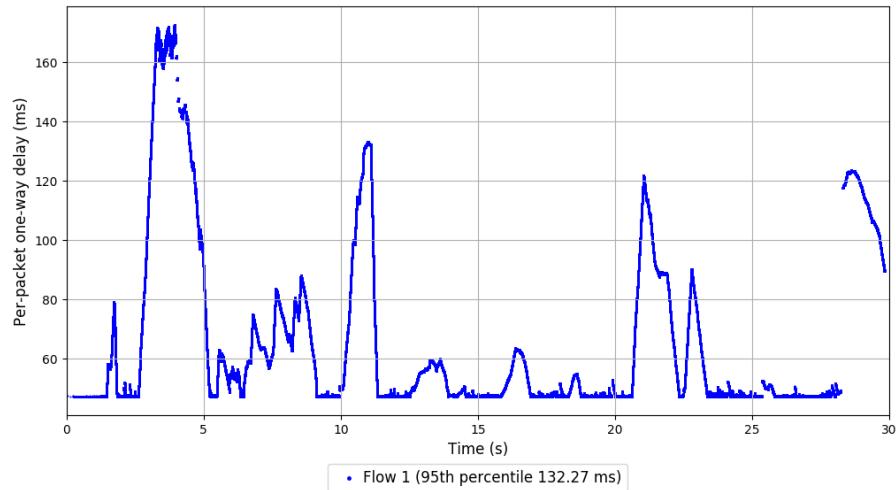
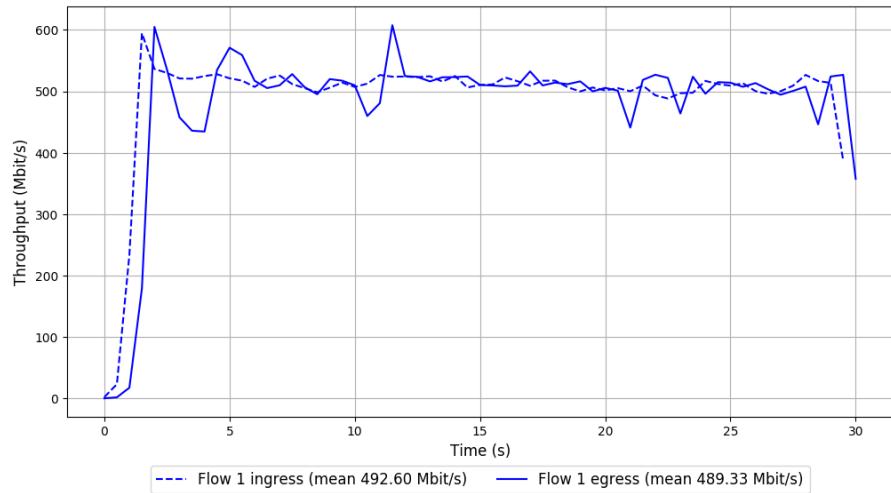


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-10-03 20:04:59
End at: 2019-10-03 20:05:29
Local clock offset: -0.06 ms
Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 22:22:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.33 Mbit/s
95th percentile per-packet one-way delay: 132.271 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 489.33 Mbit/s
95th percentile per-packet one-way delay: 132.271 ms
Loss rate: 0.98%
```

Run 5: Report of PCC-Allegro — Data Link

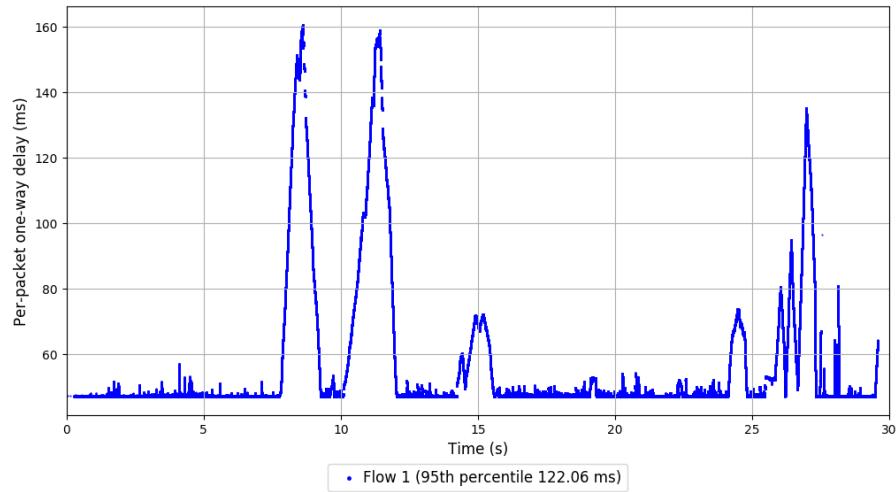
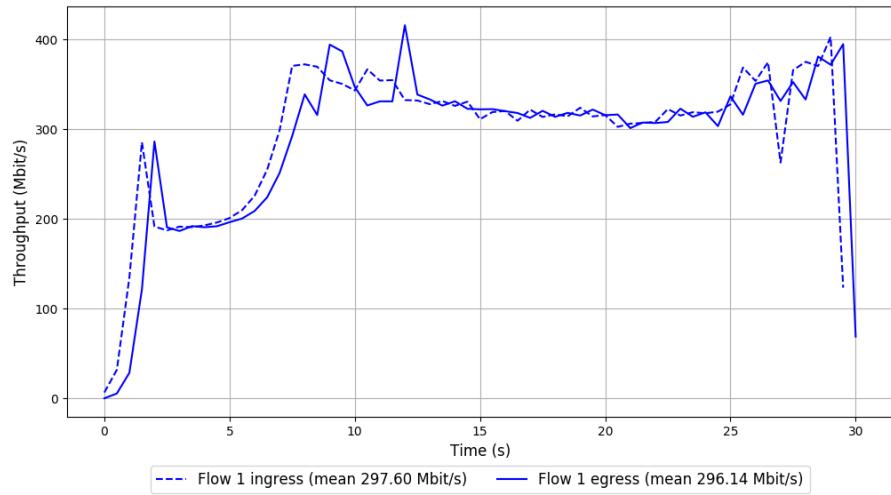


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-10-03 17:47:56
End at: 2019-10-03 17:48:26
Local clock offset: -0.002 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-10-03 22:22:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.14 Mbit/s
95th percentile per-packet one-way delay: 122.060 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 296.14 Mbit/s
95th percentile per-packet one-way delay: 122.060 ms
Loss rate: 0.81%
```

Run 1: Report of PCC-Expr — Data Link

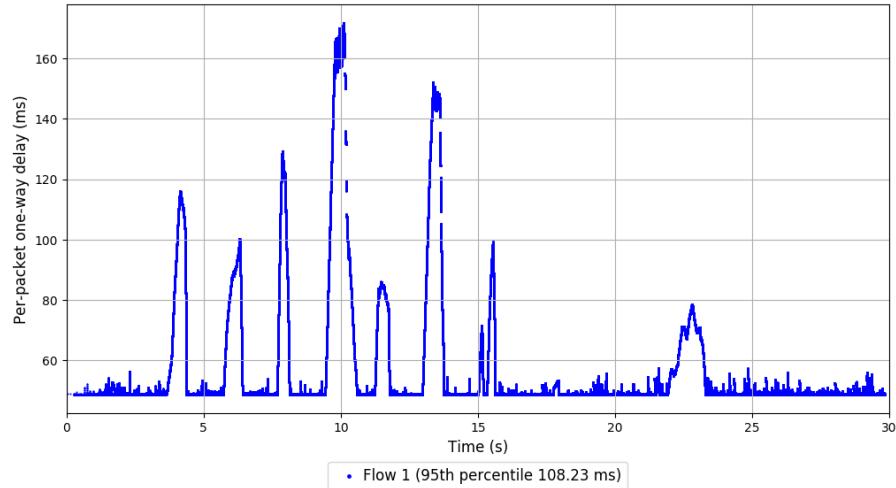
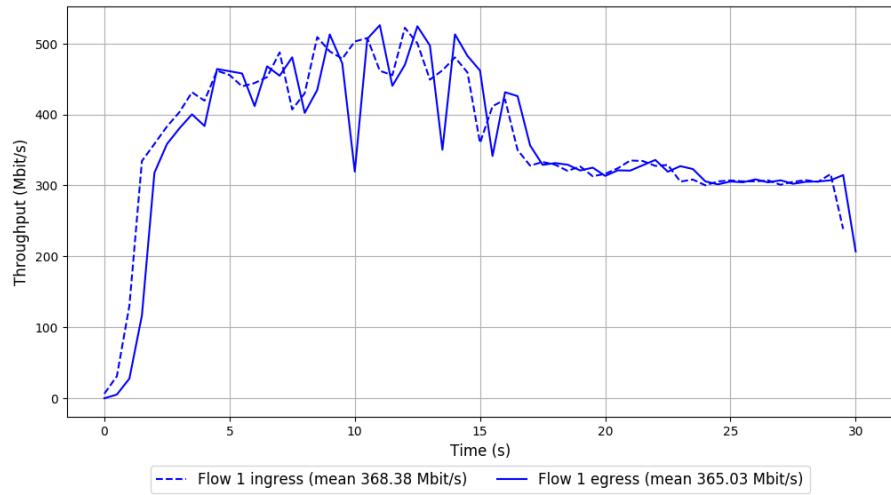


Run 2: Statistics of PCC-Expr

```
Start at: 2019-10-03 18:22:54
End at: 2019-10-03 18:23:24
Local clock offset: -0.045 ms
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.03 Mbit/s
95th percentile per-packet one-way delay: 108.234 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 365.03 Mbit/s
95th percentile per-packet one-way delay: 108.234 ms
Loss rate: 1.23%
```

Run 2: Report of PCC-Expr — Data Link

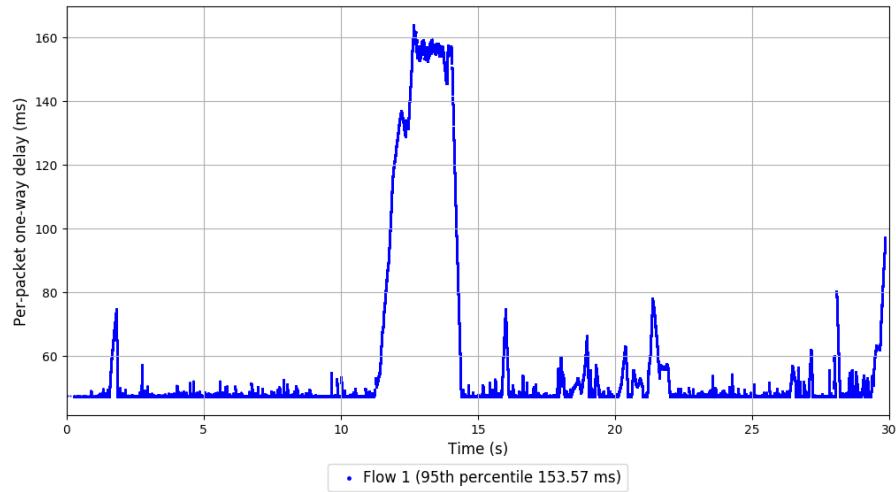
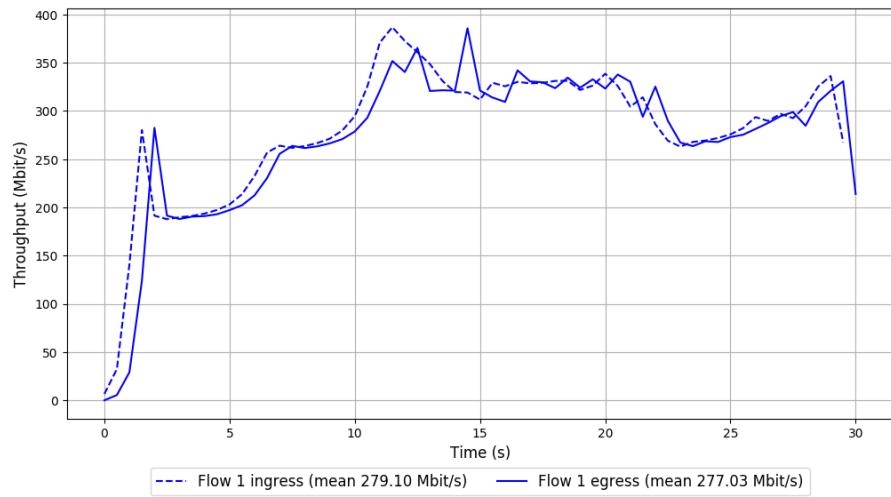


Run 3: Statistics of PCC-Expr

```
Start at: 2019-10-03 18:57:42
End at: 2019-10-03 18:58:12
Local clock offset: -0.04 ms
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 277.03 Mbit/s
95th percentile per-packet one-way delay: 153.570 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 277.03 Mbit/s
95th percentile per-packet one-way delay: 153.570 ms
Loss rate: 1.06%
```

Run 3: Report of PCC-Expr — Data Link

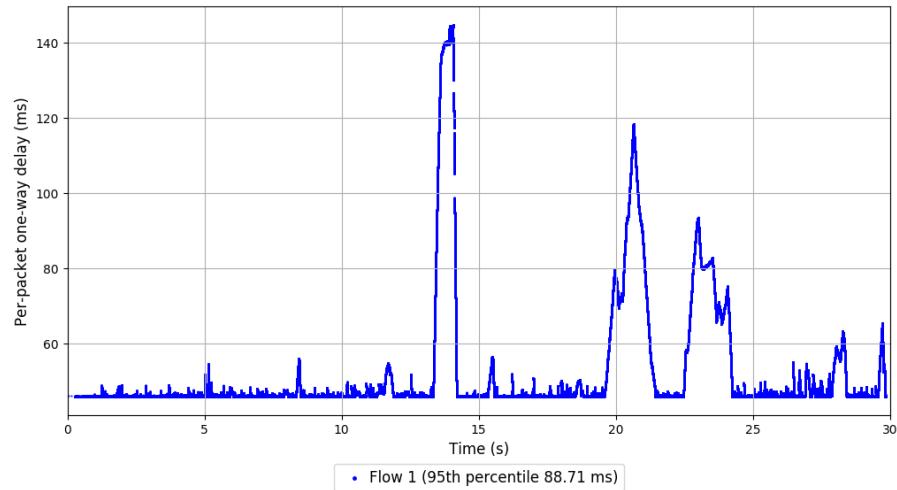
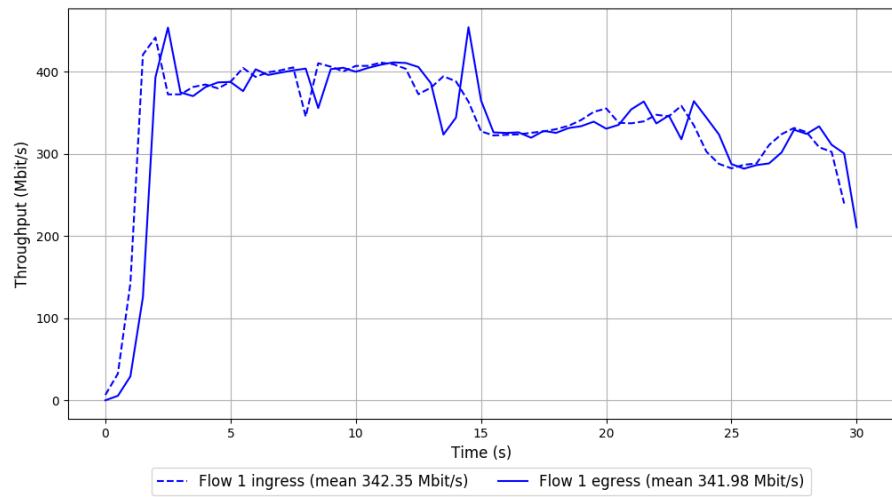


Run 4: Statistics of PCC-Expr

```
Start at: 2019-10-03 19:32:37
End at: 2019-10-03 19:33:07
Local clock offset: -0.367 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.98 Mbit/s
95th percentile per-packet one-way delay: 88.709 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 341.98 Mbit/s
95th percentile per-packet one-way delay: 88.709 ms
Loss rate: 0.42%
```

Run 4: Report of PCC-Expr — Data Link

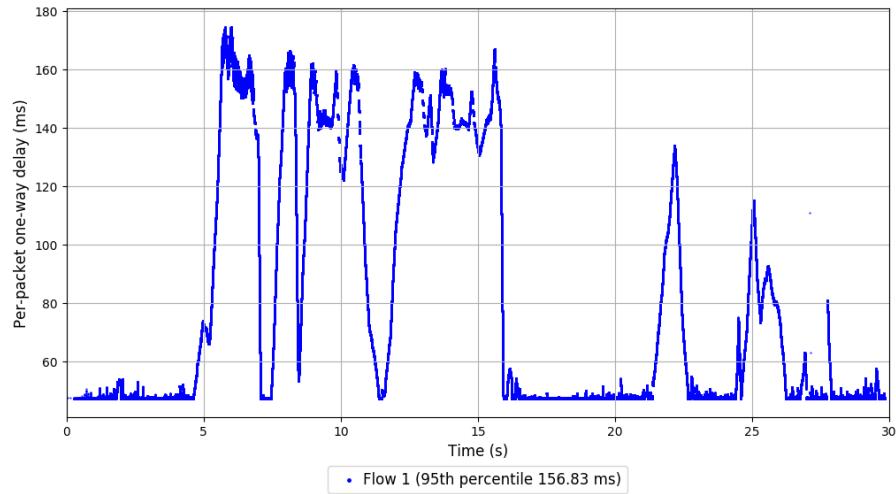
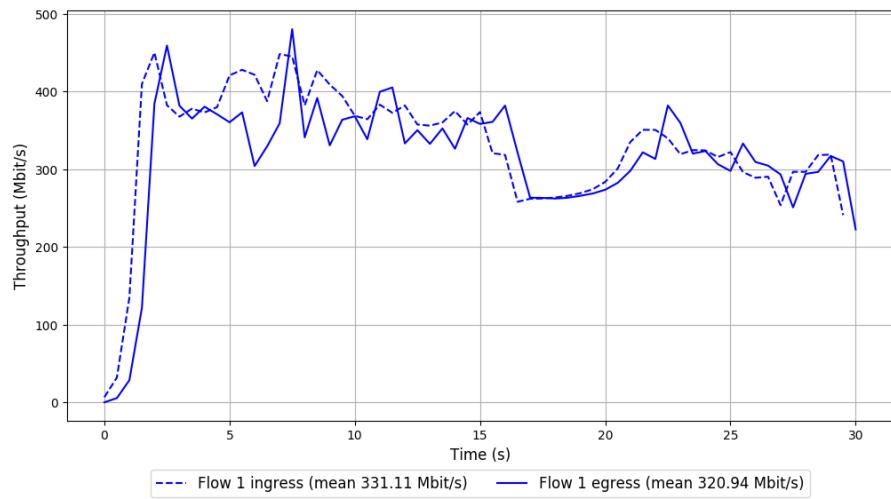


Run 5: Statistics of PCC-Expr

```
Start at: 2019-10-03 20:07:45
End at: 2019-10-03 20:08:15
Local clock offset: -0.077 ms
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.94 Mbit/s
95th percentile per-packet one-way delay: 156.829 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 320.94 Mbit/s
95th percentile per-packet one-way delay: 156.829 ms
Loss rate: 3.38%
```

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

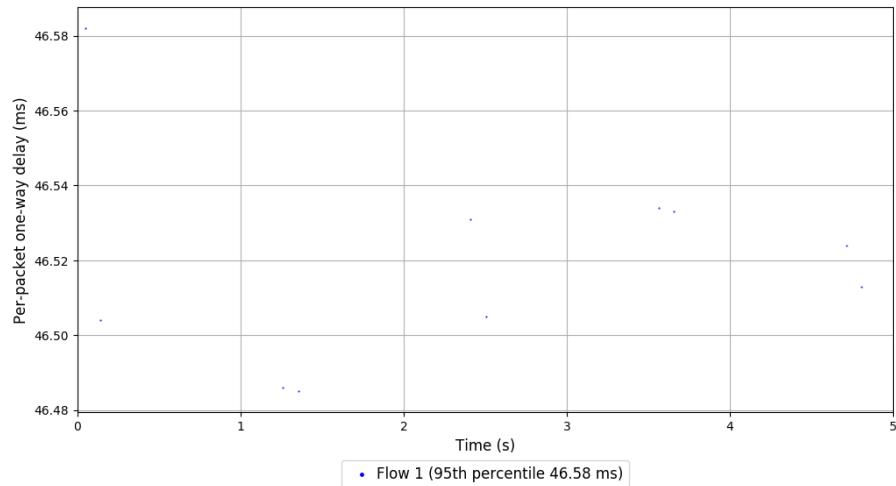
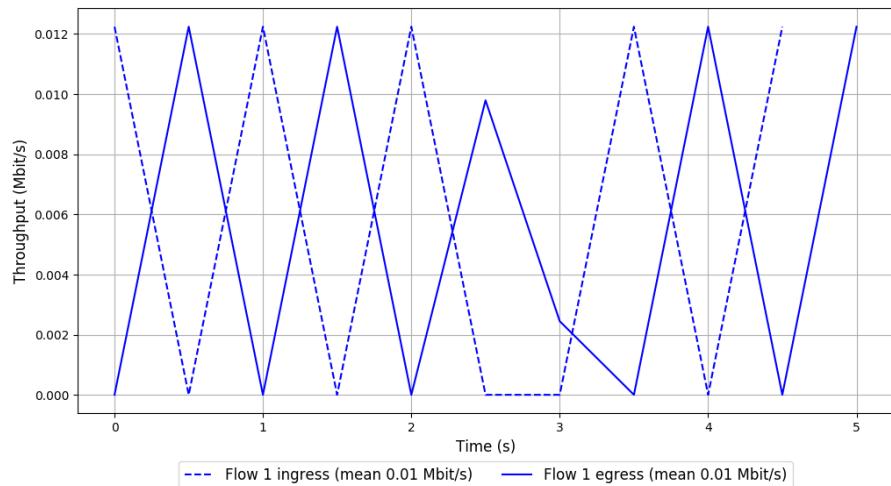
Start at: 2019-10-03 17:25:01

End at: 2019-10-03 17:25:31

Local clock offset: -0.071 ms

Remote clock offset: -0.046 ms

Run 1: Report of QUIC Cubic — Data Link

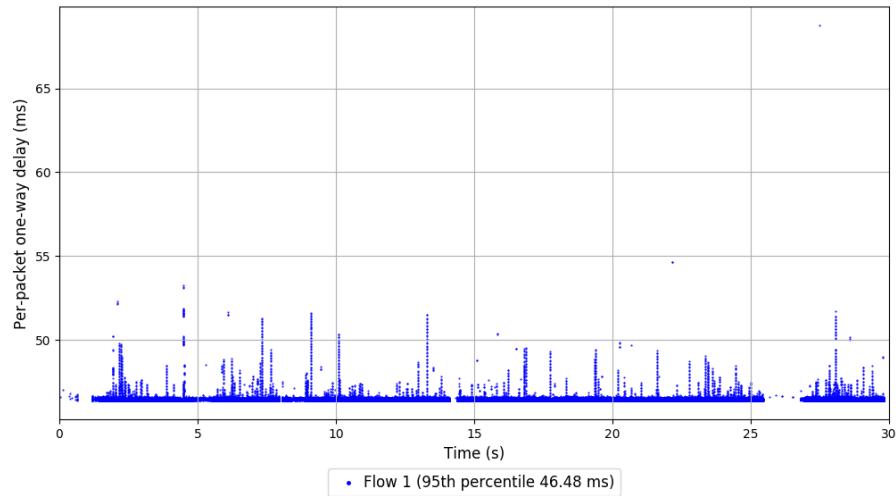
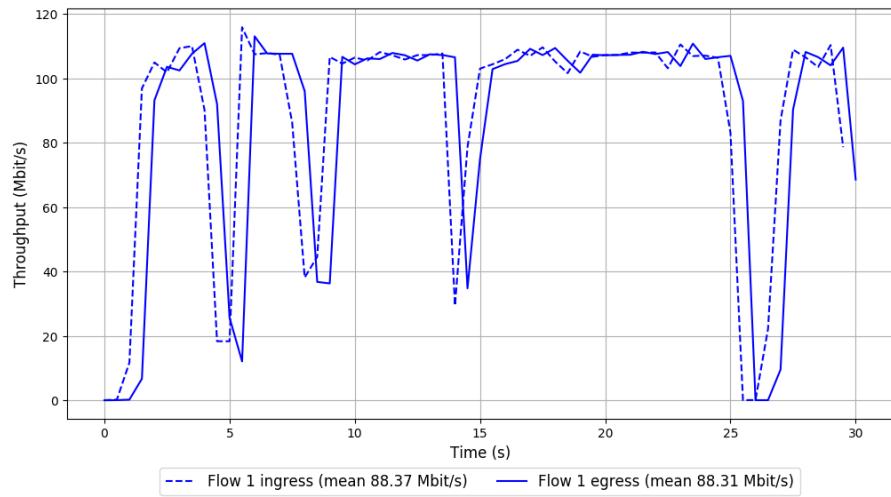


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-10-03 17:59:42
End at: 2019-10-03 18:00:12
Local clock offset: 0.067 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 46.485 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 88.31 Mbit/s
95th percentile per-packet one-way delay: 46.485 ms
Loss rate: 0.38%
```

Run 2: Report of QUIC Cubic — Data Link

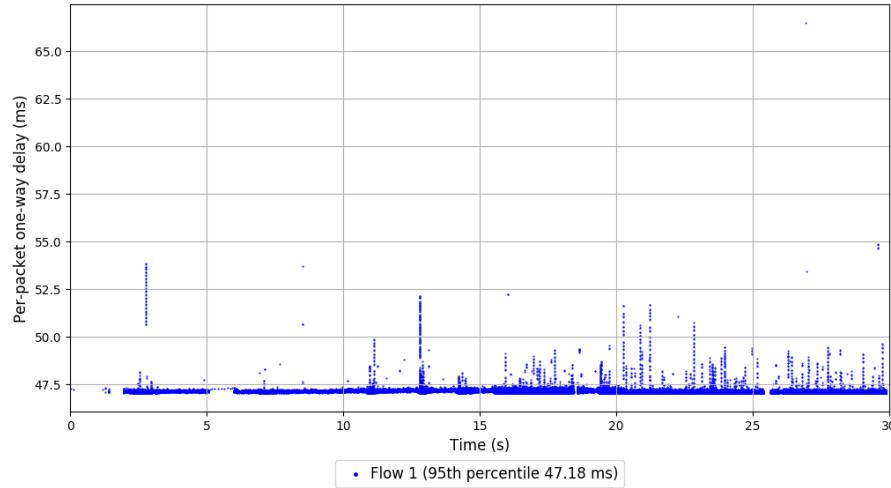
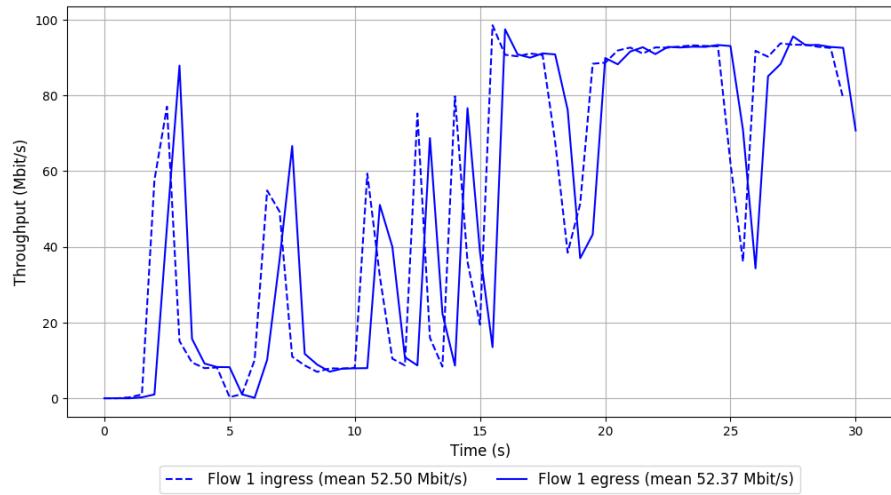


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-10-03 18:34:26
End at: 2019-10-03 18:34:56
Local clock offset: -0.043 ms
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 47.184 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 47.184 ms
Loss rate: 0.55%
```

Run 3: Report of QUIC Cubic — Data Link

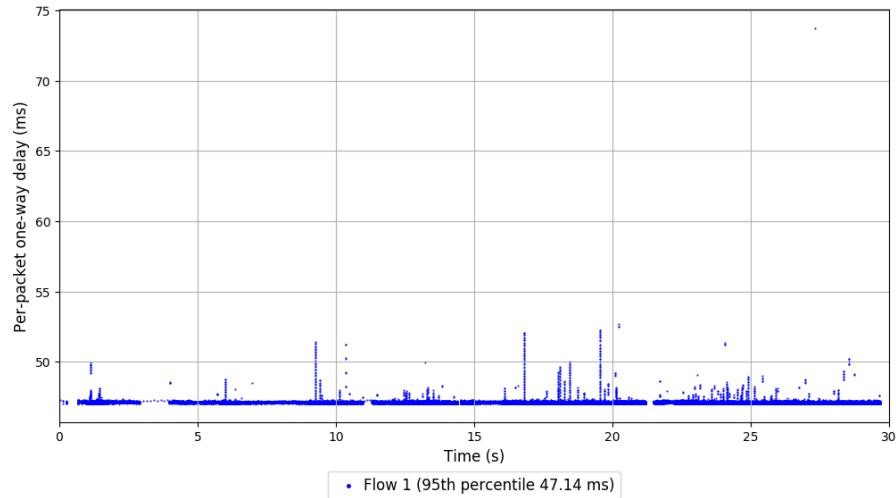
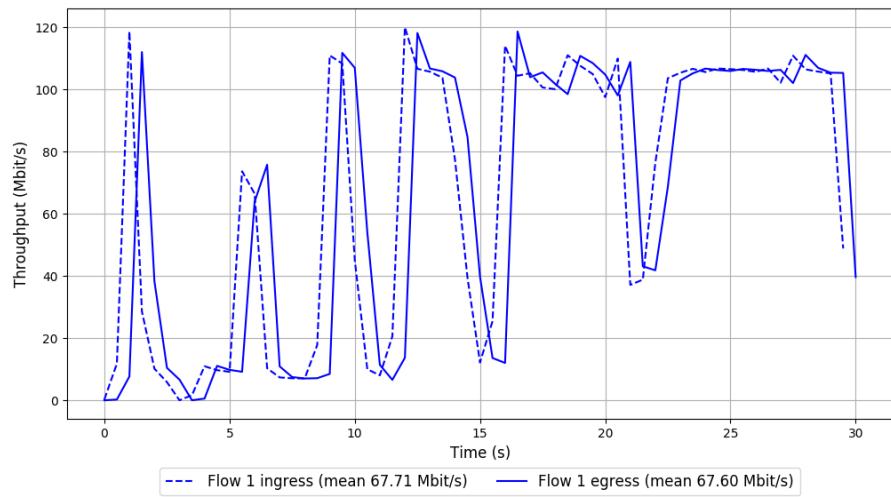


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-10-03 19:09:18
End at: 2019-10-03 19:09:48
Local clock offset: -0.033 ms
Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 47.144 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 47.144 ms
Loss rate: 0.47%
```

Run 4: Report of QUIC Cubic — Data Link

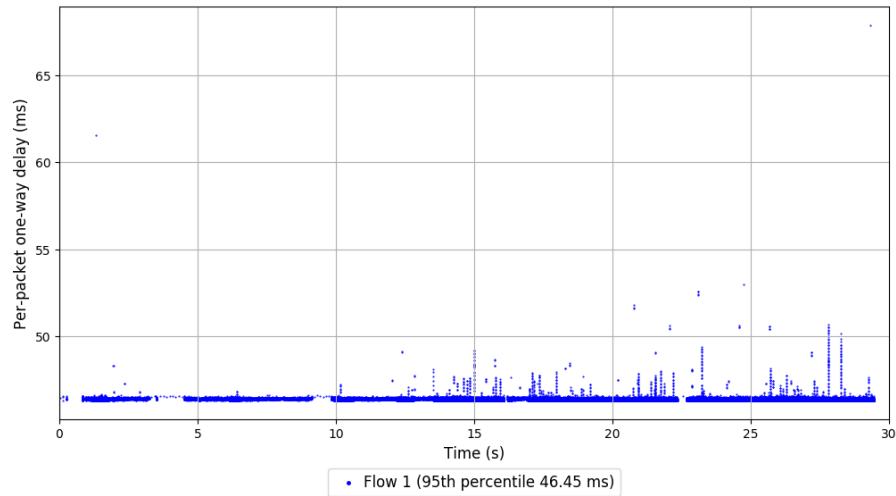
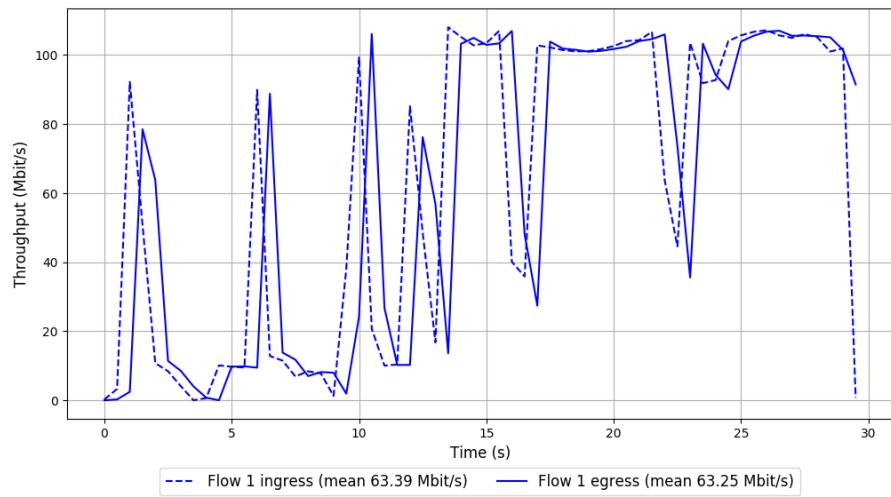


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-10-03 19:44:22
End at: 2019-10-03 19:44:52
Local clock offset: -0.039 ms
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 46.447 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 63.25 Mbit/s
95th percentile per-packet one-way delay: 46.447 ms
Loss rate: 0.55%
```

Run 5: Report of QUIC Cubic — Data Link

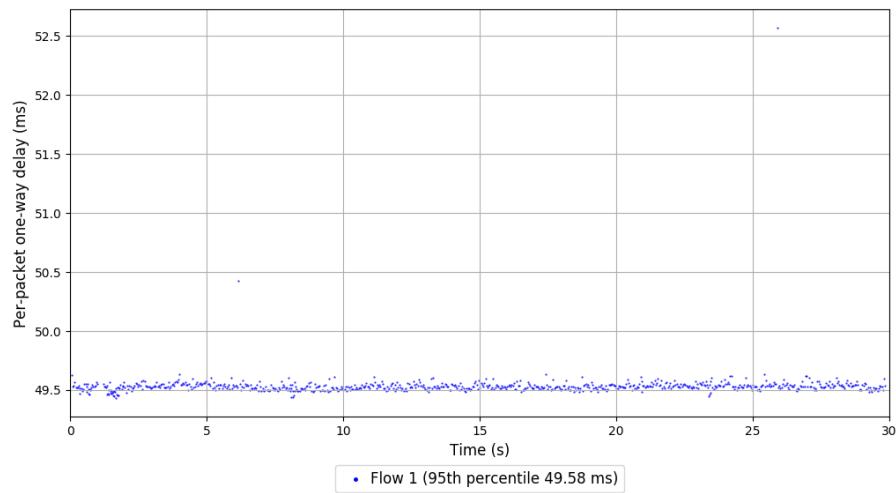
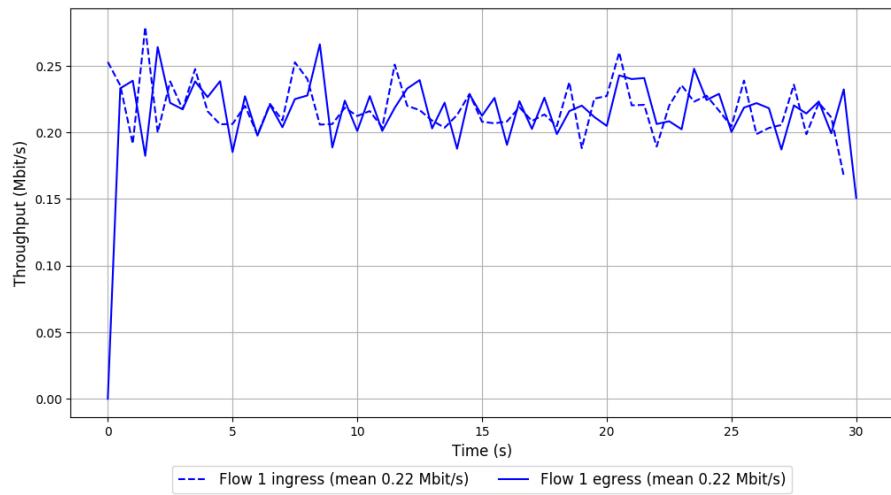


Run 1: Statistics of SCReAM

```
Start at: 2019-10-03 17:46:49
End at: 2019-10-03 17:47:19
Local clock offset: 0.029 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.580 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.580 ms
Loss rate: 0.25%
```

Run 1: Report of SCReAM — Data Link

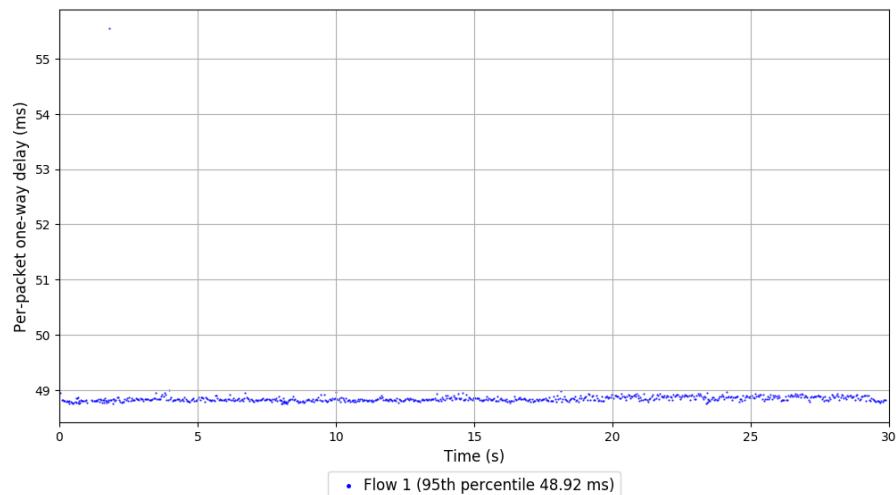
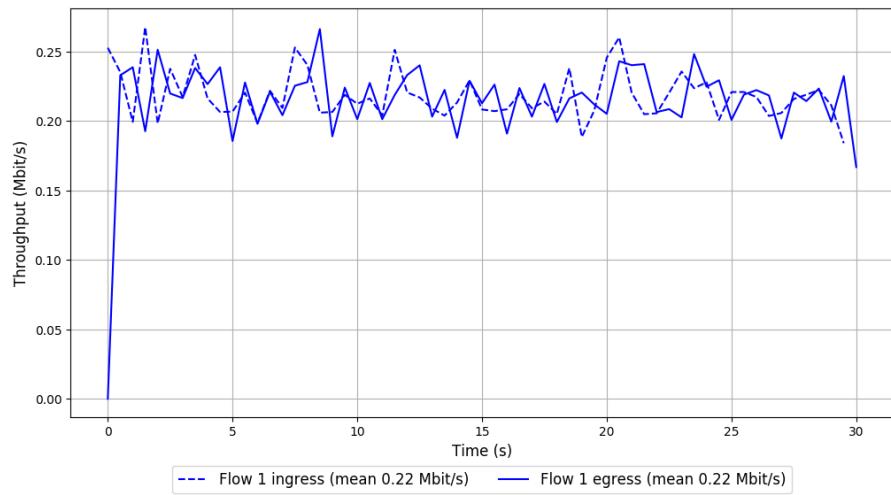


Run 2: Statistics of SCReAM

```
Start at: 2019-10-03 18:21:47
End at: 2019-10-03 18:22:17
Local clock offset: -0.05 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.920 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.920 ms
Loss rate: 0.26%
```

Run 2: Report of SCReAM — Data Link

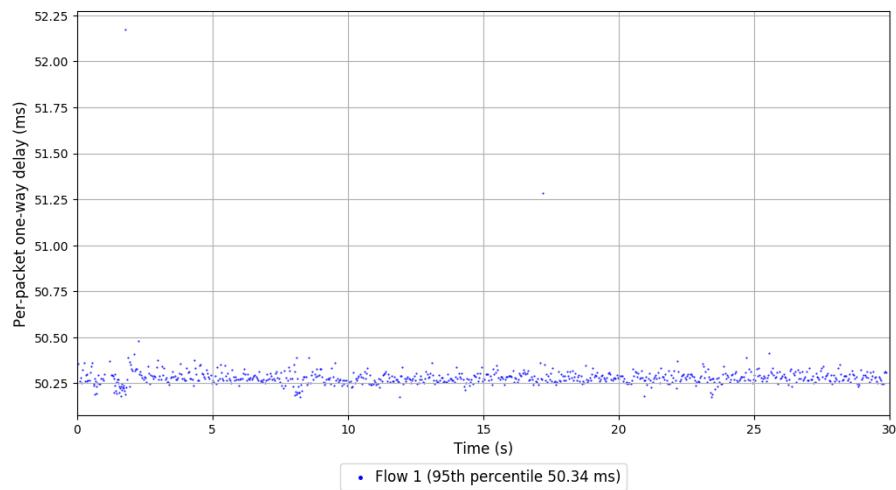
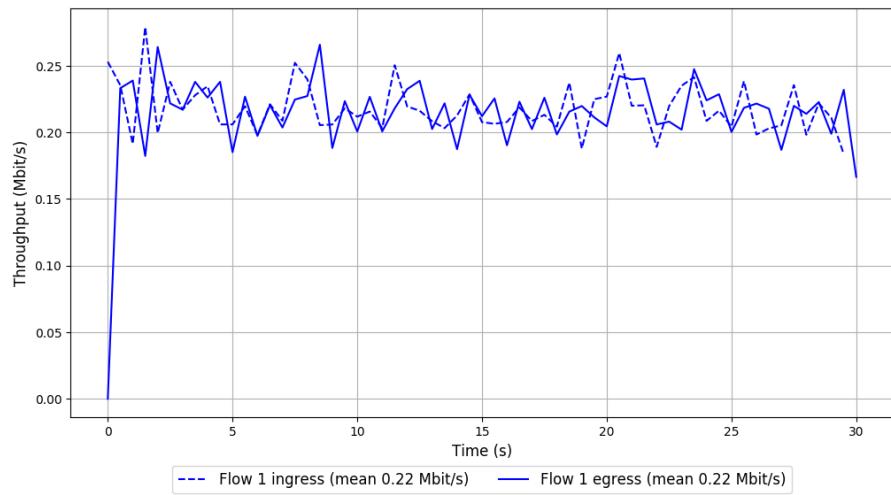


Run 3: Statistics of SCReAM

```
Start at: 2019-10-03 18:56:35
End at: 2019-10-03 18:57:05
Local clock offset: -0.037 ms
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.339 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.339 ms
Loss rate: 0.26%
```

Run 3: Report of SCReAM — Data Link

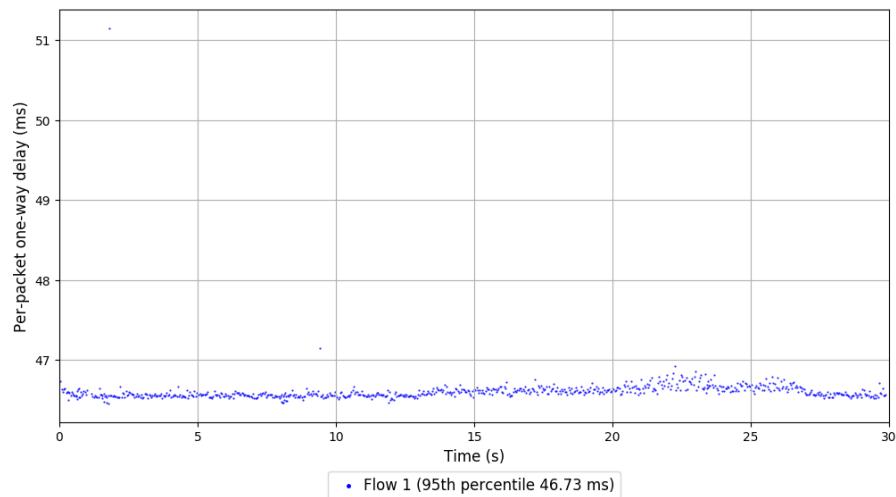
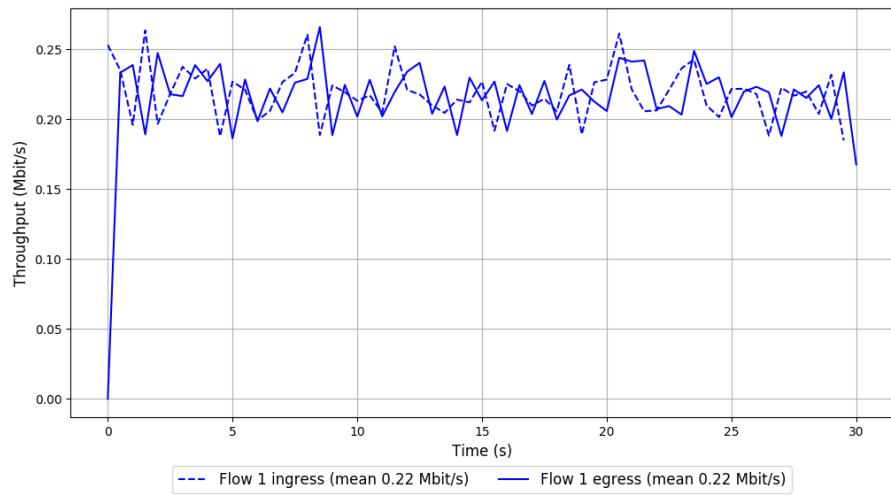


Run 4: Statistics of SCReAM

```
Start at: 2019-10-03 19:31:29
End at: 2019-10-03 19:31:59
Local clock offset: -0.024 ms
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.728 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.728 ms
Loss rate: 0.26%
```

Run 4: Report of SCReAM — Data Link

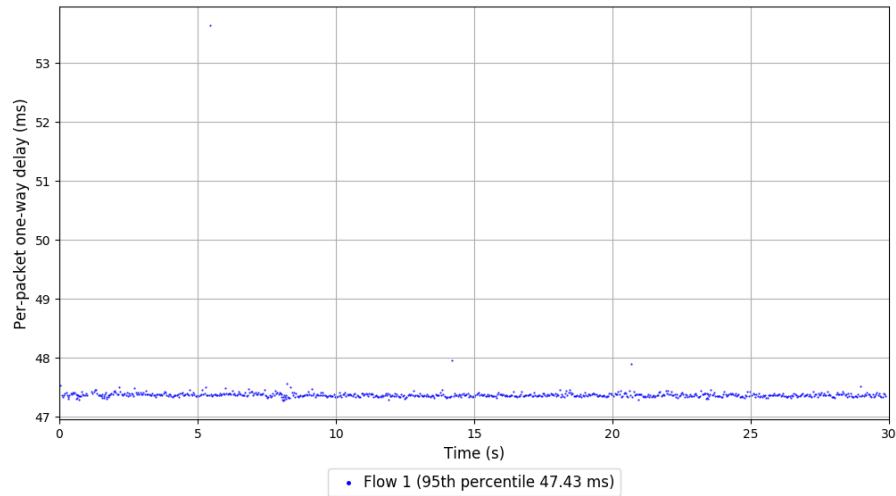
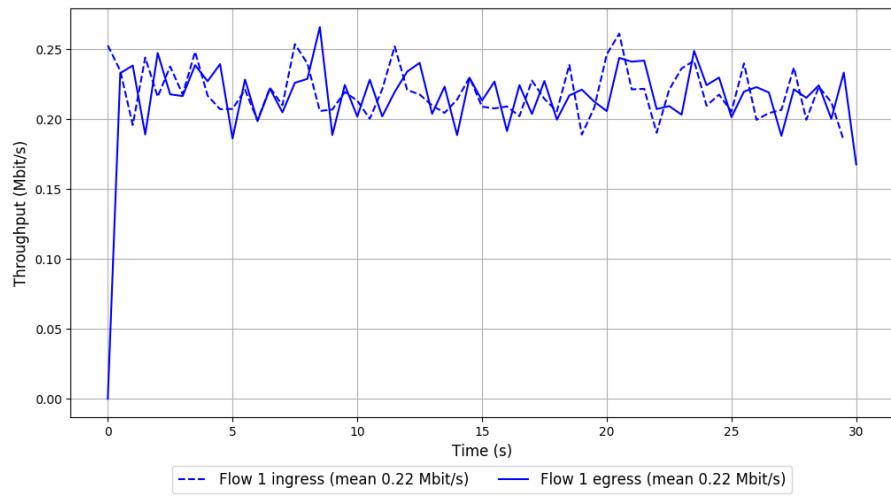


Run 5: Statistics of SCReAM

```
Start at: 2019-10-03 20:06:38
End at: 2019-10-03 20:07:08
Local clock offset: -0.067 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.429 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.429 ms
Loss rate: 0.26%
```

Run 5: Report of SCReAM — Data Link

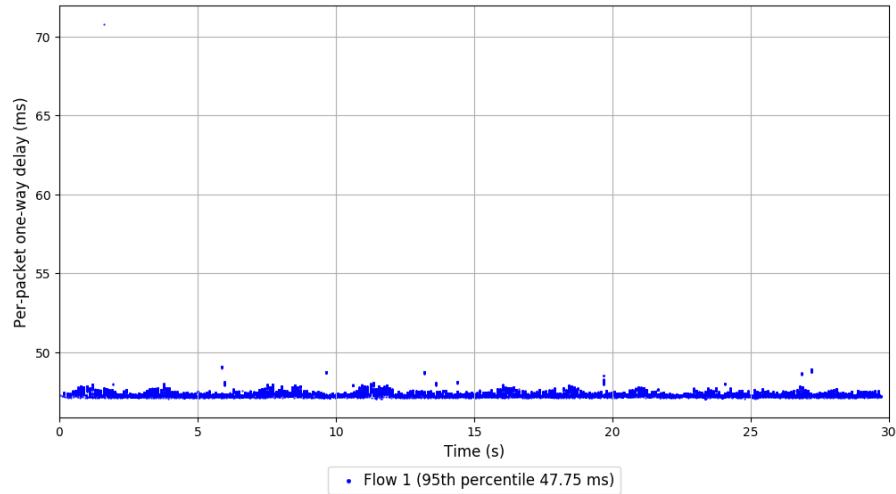
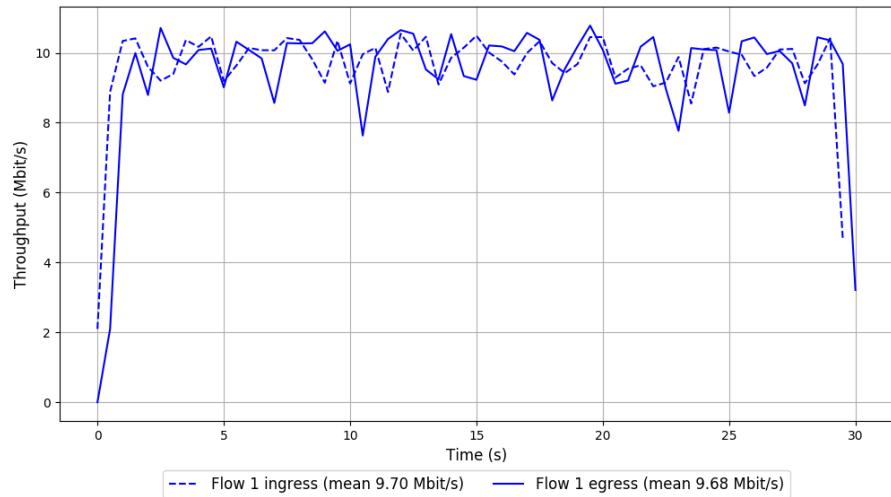


Run 1: Statistics of Sprout

```
Start at: 2019-10-03 17:29:09
End at: 2019-10-03 17:29:39
Local clock offset: -0.036 ms
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.751 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.751 ms
Loss rate: 0.39%
```

Run 1: Report of Sprout — Data Link

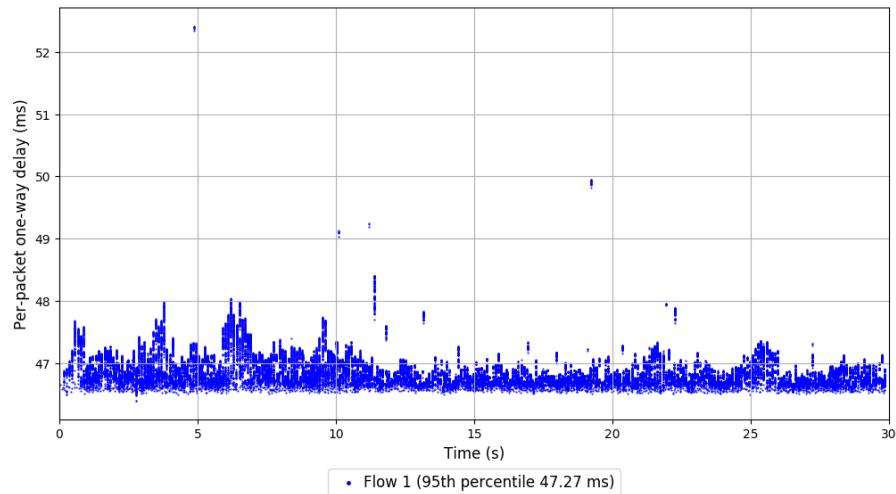
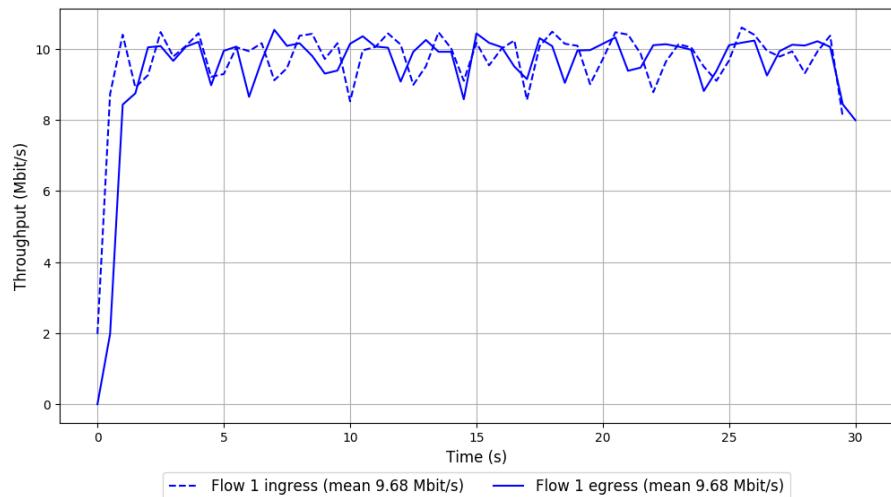


Run 2: Statistics of Sprout

```
Start at: 2019-10-03 18:03:49
End at: 2019-10-03 18:04:19
Local clock offset: 0.018 ms
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.270 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 47.270 ms
Loss rate: 0.35%
```

Run 2: Report of Sprout — Data Link

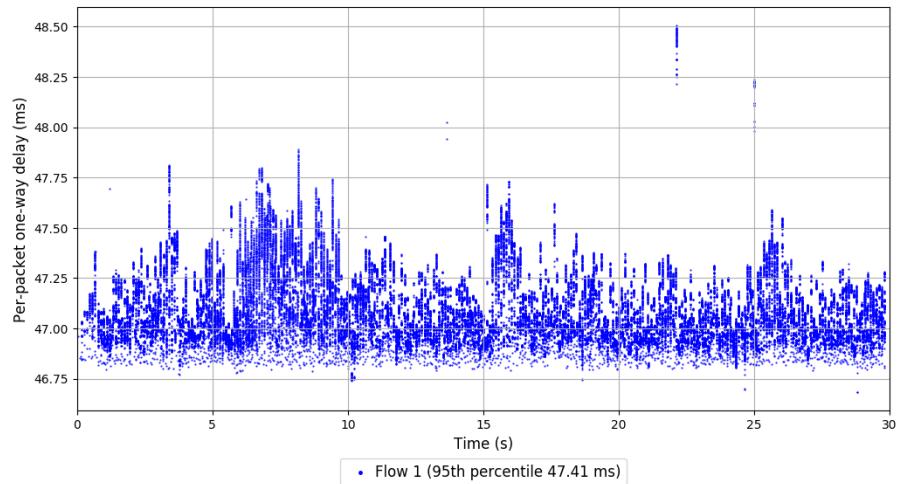
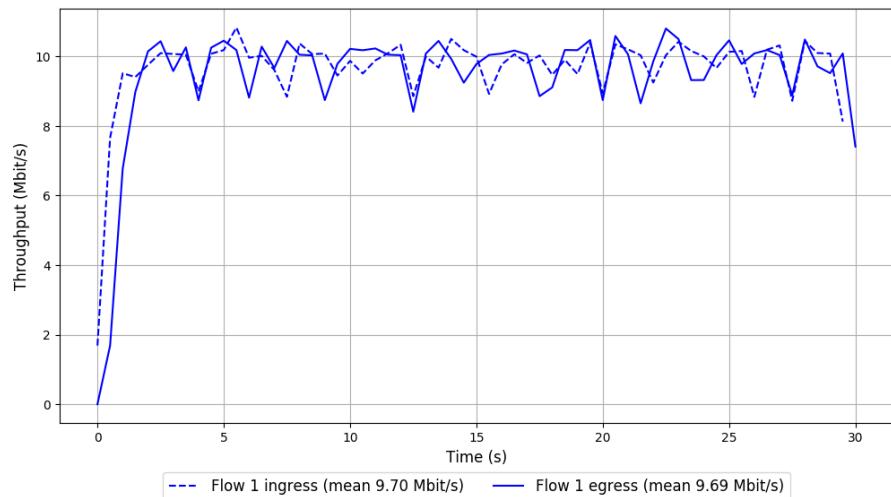


Run 3: Statistics of Sprout

```
Start at: 2019-10-03 18:38:43
End at: 2019-10-03 18:39:13
Local clock offset: -0.421 ms
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 47.413 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.69 Mbit/s
95th percentile per-packet one-way delay: 47.413 ms
Loss rate: 0.35%
```

Run 3: Report of Sprout — Data Link

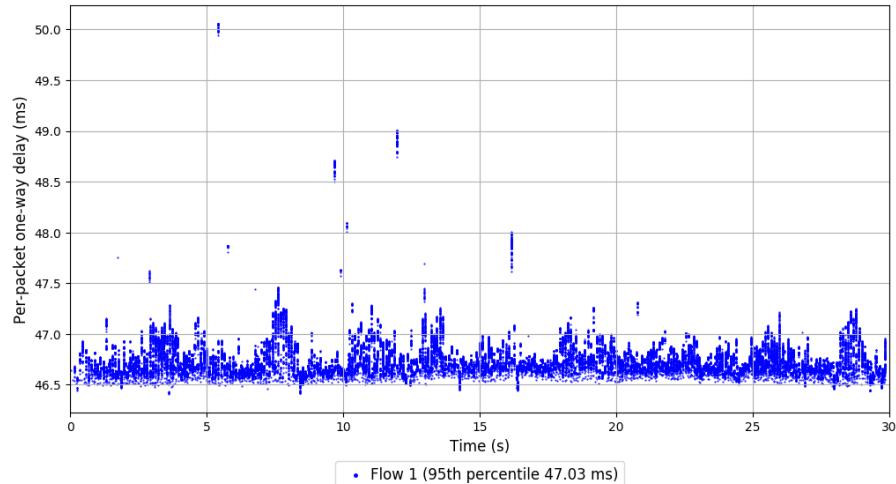
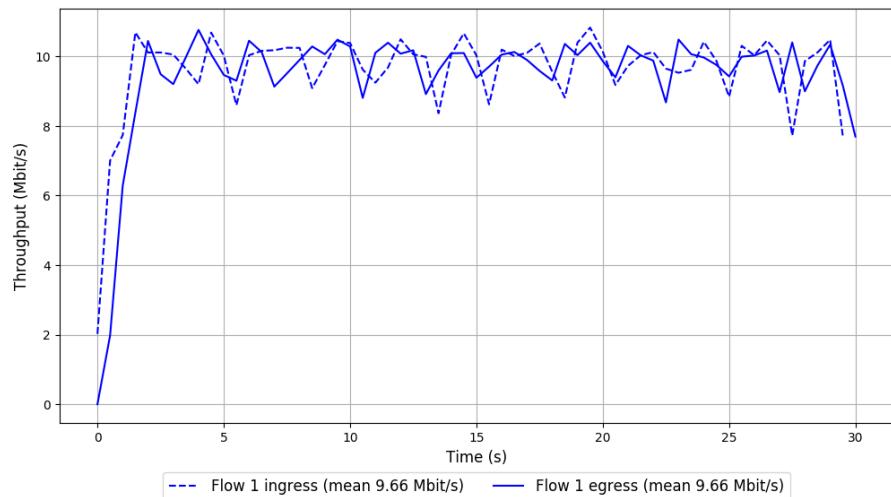


Run 4: Statistics of Sprout

```
Start at: 2019-10-03 19:13:45
End at: 2019-10-03 19:14:15
Local clock offset: -0.011 ms
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 47.028 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 47.028 ms
Loss rate: 0.23%
```

Run 4: Report of Sprout — Data Link

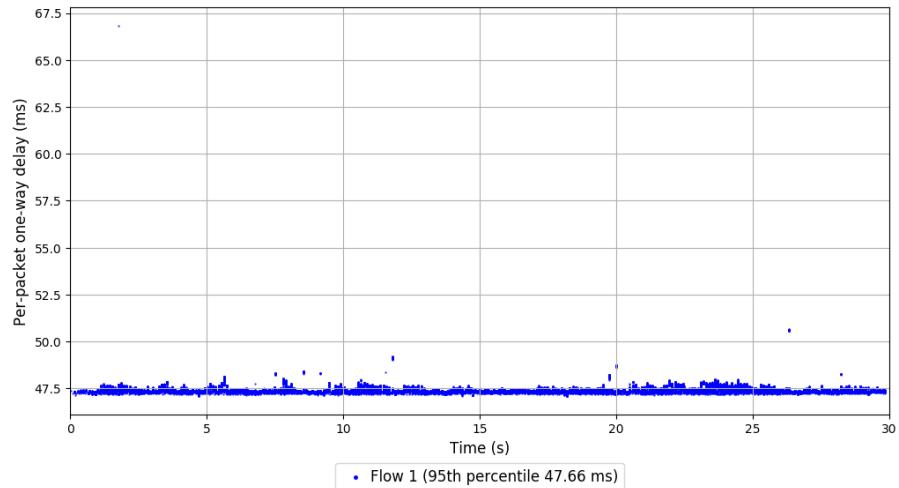
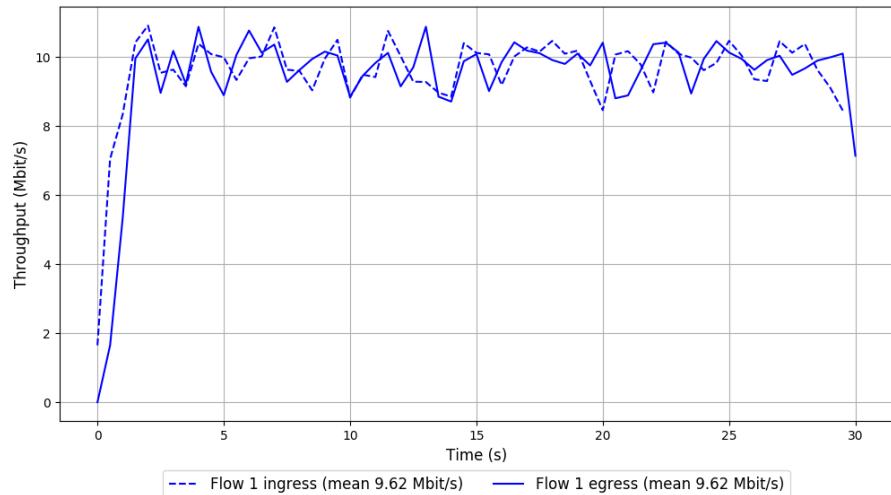


Run 5: Statistics of Sprout

```
Start at: 2019-10-03 19:48:46
End at: 2019-10-03 19:49:16
Local clock offset: -0.081 ms
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-10-03 22:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 47.656 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 9.62 Mbit/s
95th percentile per-packet one-way delay: 47.656 ms
Loss rate: 0.33%
```

Run 5: Report of Sprout — Data Link

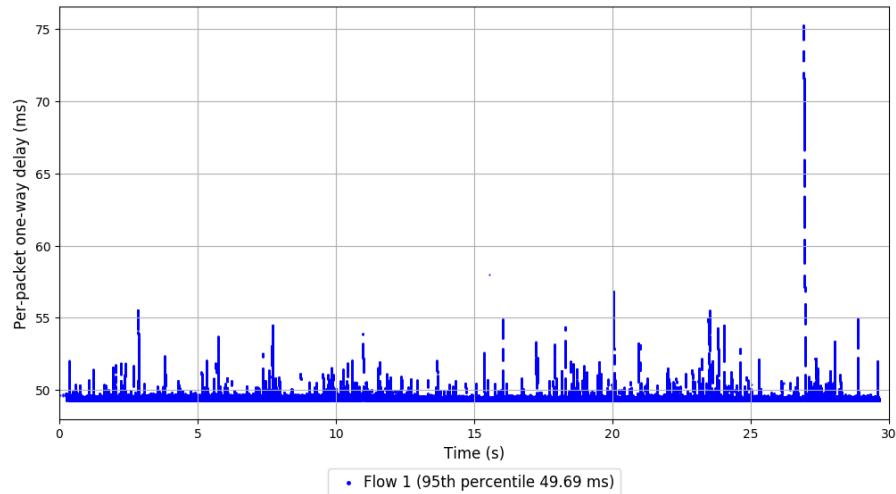
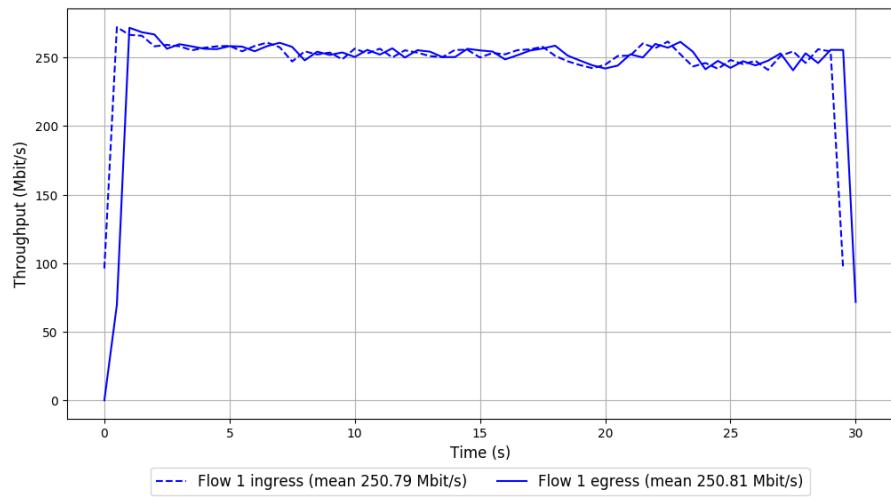


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-10-03 17:21:51
End at: 2019-10-03 17:22:21
Local clock offset: -0.083 ms
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-10-03 22:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.81 Mbit/s
95th percentile per-packet one-way delay: 49.686 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 250.81 Mbit/s
95th percentile per-packet one-way delay: 49.686 ms
Loss rate: 0.32%
```

Run 1: Report of TaoVA-100x — Data Link

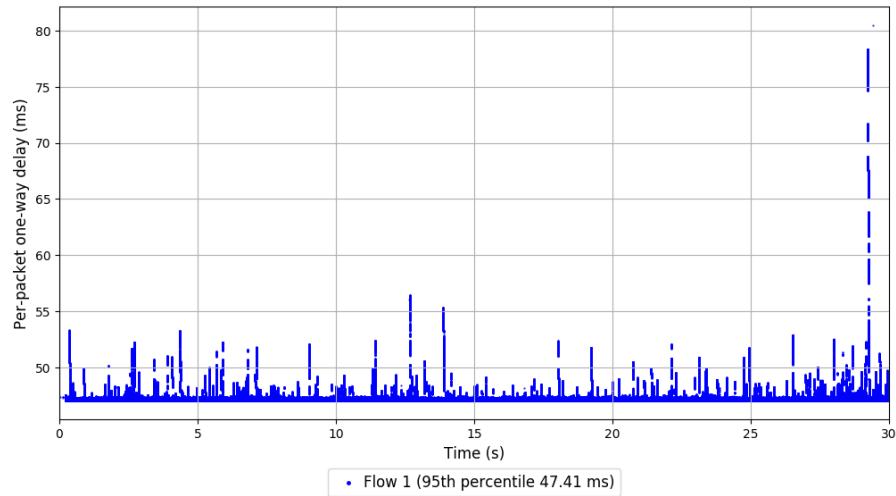
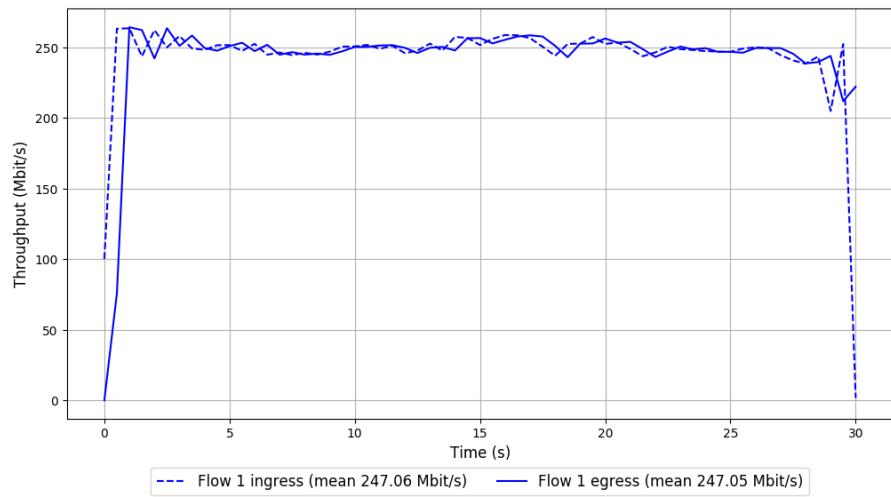


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-10-03 17:56:32
End at: 2019-10-03 17:57:02
Local clock offset: 0.044 ms
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-03 22:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.05 Mbit/s
95th percentile per-packet one-way delay: 47.409 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 247.05 Mbit/s
95th percentile per-packet one-way delay: 47.409 ms
Loss rate: 0.33%
```

Run 2: Report of TaoVA-100x — Data Link

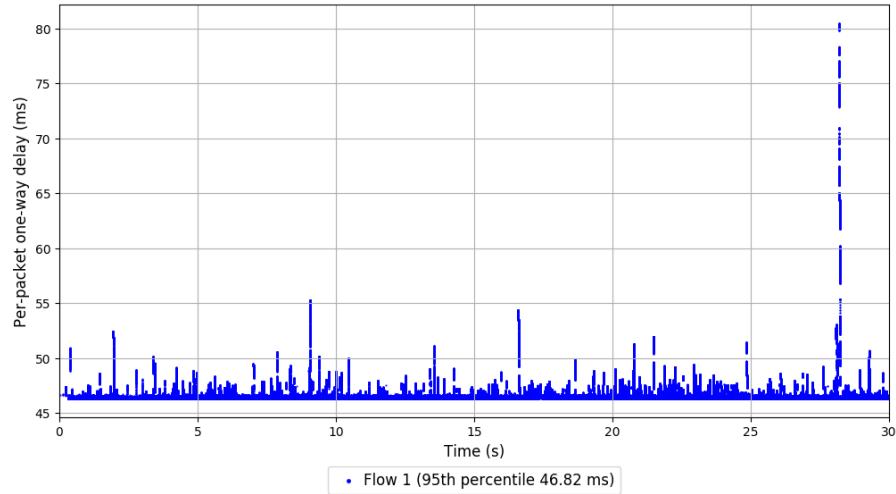
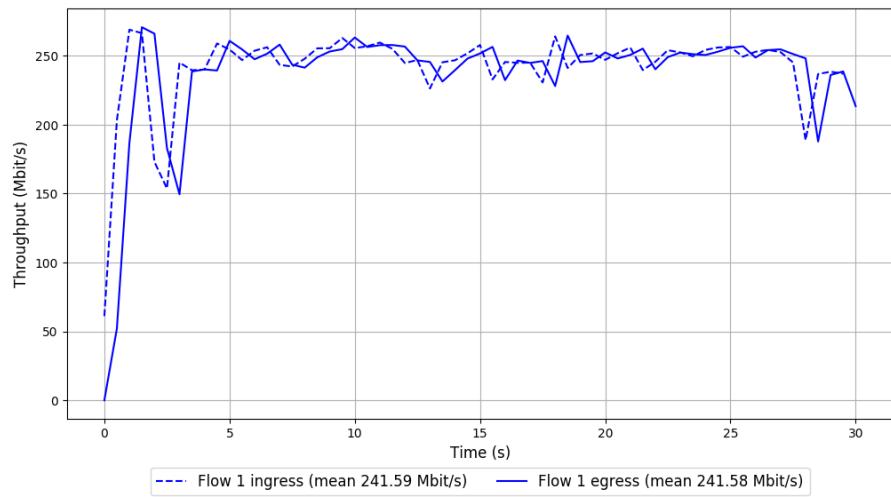


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-10-03 18:31:19
End at: 2019-10-03 18:31:49
Local clock offset: -0.03 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-10-03 22:27:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.58 Mbit/s
95th percentile per-packet one-way delay: 46.823 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 241.58 Mbit/s
95th percentile per-packet one-way delay: 46.823 ms
Loss rate: 0.32%
```

Run 3: Report of TaoVA-100x — Data Link

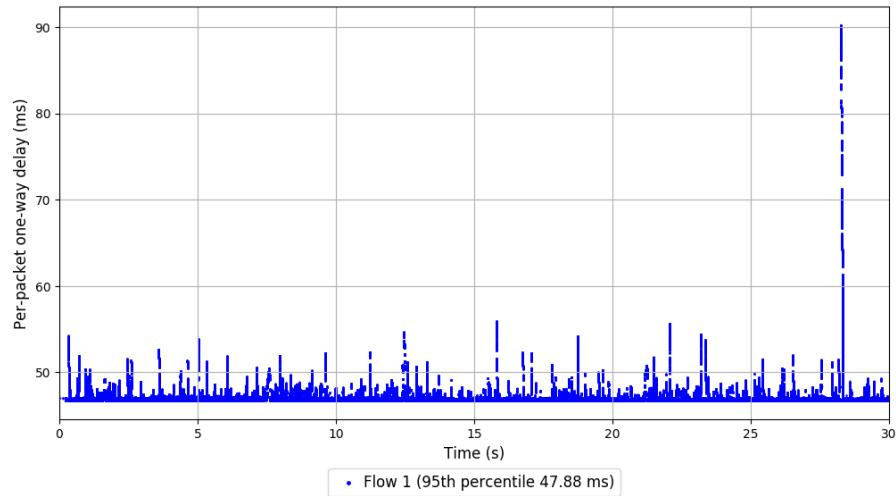
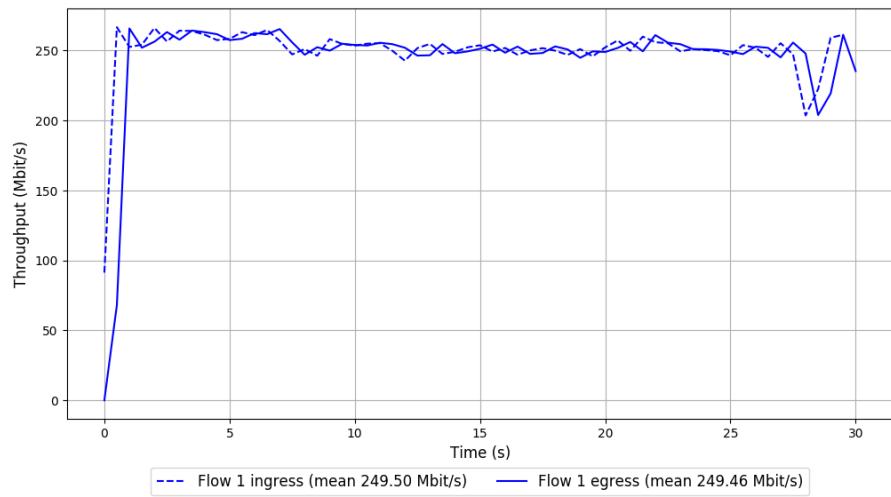


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-10-03 19:06:09
End at: 2019-10-03 19:06:39
Local clock offset: 0.34 ms
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-10-03 22:28:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.46 Mbit/s
95th percentile per-packet one-way delay: 47.882 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 249.46 Mbit/s
95th percentile per-packet one-way delay: 47.882 ms
Loss rate: 0.33%
```

Run 4: Report of TaoVA-100x — Data Link

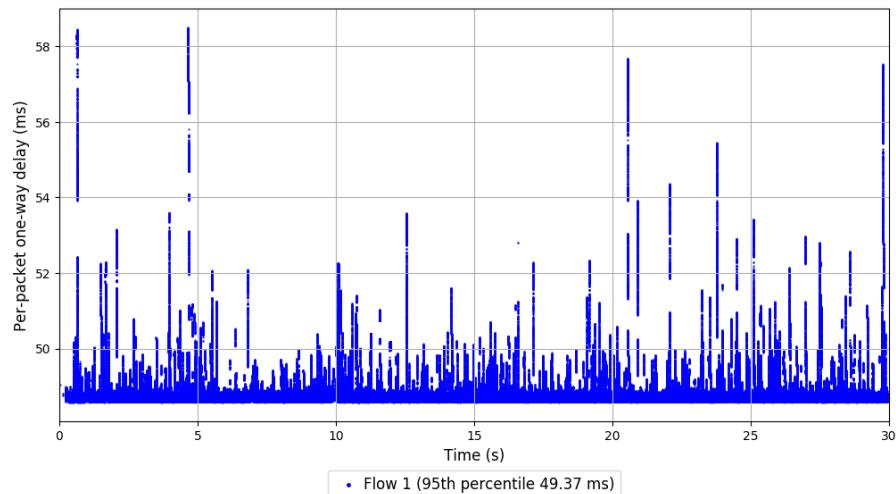
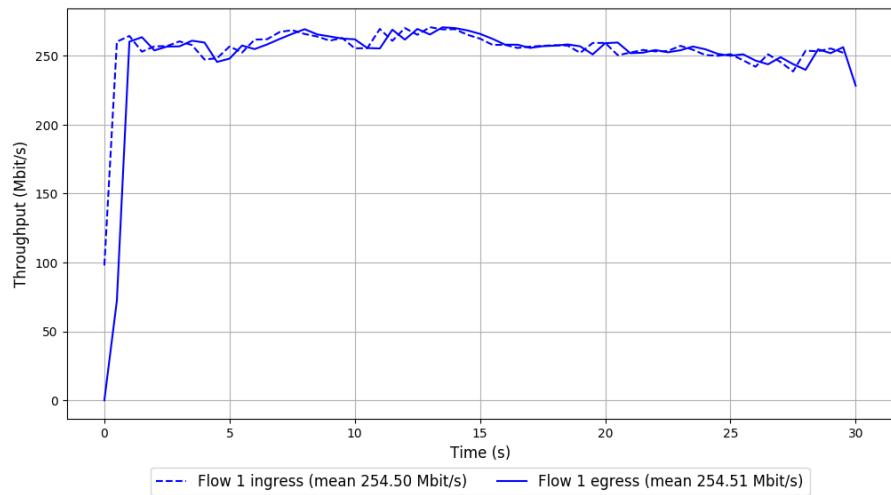


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-10-03 19:41:08
End at: 2019-10-03 19:41:38
Local clock offset: -0.043 ms
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-10-03 22:29:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.51 Mbit/s
95th percentile per-packet one-way delay: 49.369 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 254.51 Mbit/s
95th percentile per-packet one-way delay: 49.369 ms
Loss rate: 0.32%
```

Run 5: Report of TaoVA-100x — Data Link

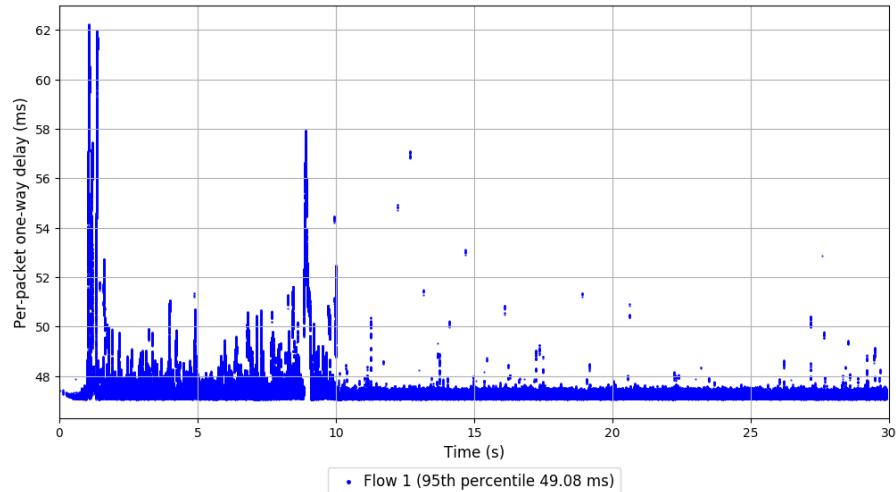
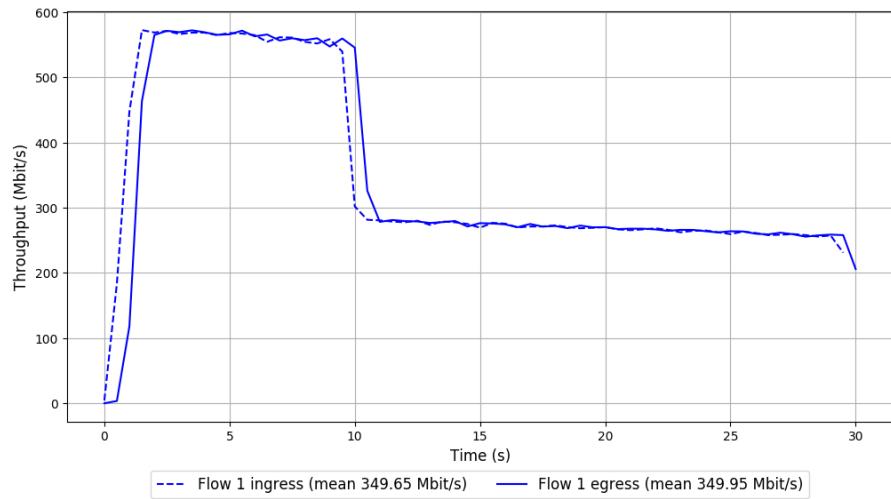


Run 1: Statistics of TCP Vegas

```
Start at: 2019-10-03 17:27:45
End at: 2019-10-03 17:28:15
Local clock offset: -0.026 ms
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-10-03 22:29:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.95 Mbit/s
95th percentile per-packet one-way delay: 49.079 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 349.95 Mbit/s
95th percentile per-packet one-way delay: 49.079 ms
Loss rate: 0.23%
```

Run 1: Report of TCP Vegas — Data Link

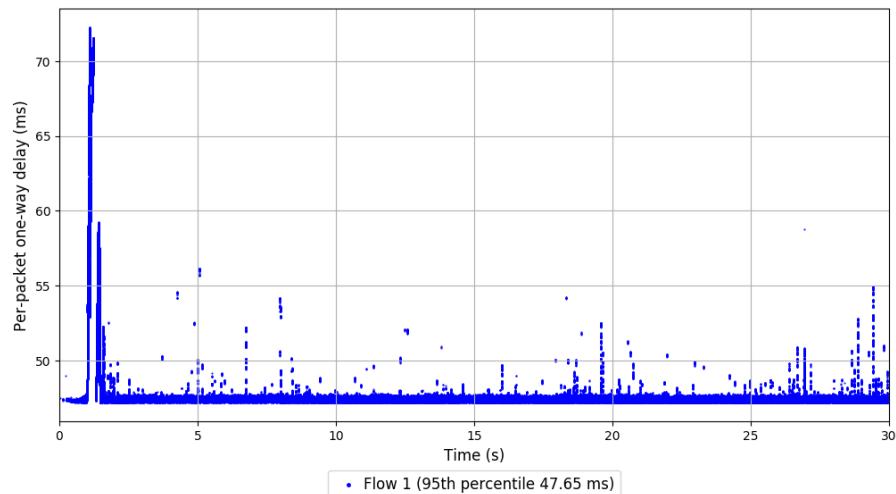
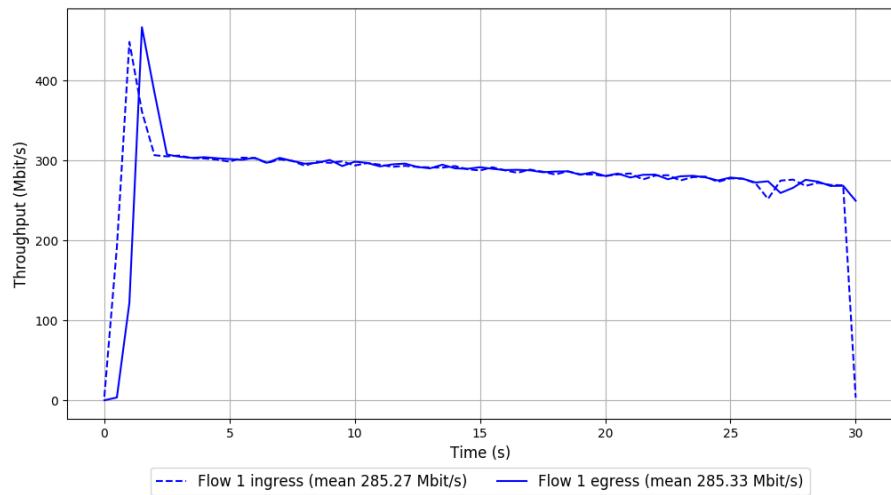


Run 2: Statistics of TCP Vegas

```
Start at: 2019-10-03 18:02:28
End at: 2019-10-03 18:02:58
Local clock offset: 0.03 ms
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-10-03 22:29:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.33 Mbit/s
95th percentile per-packet one-way delay: 47.650 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 285.33 Mbit/s
95th percentile per-packet one-way delay: 47.650 ms
Loss rate: 0.30%
```

Run 2: Report of TCP Vegas — Data Link

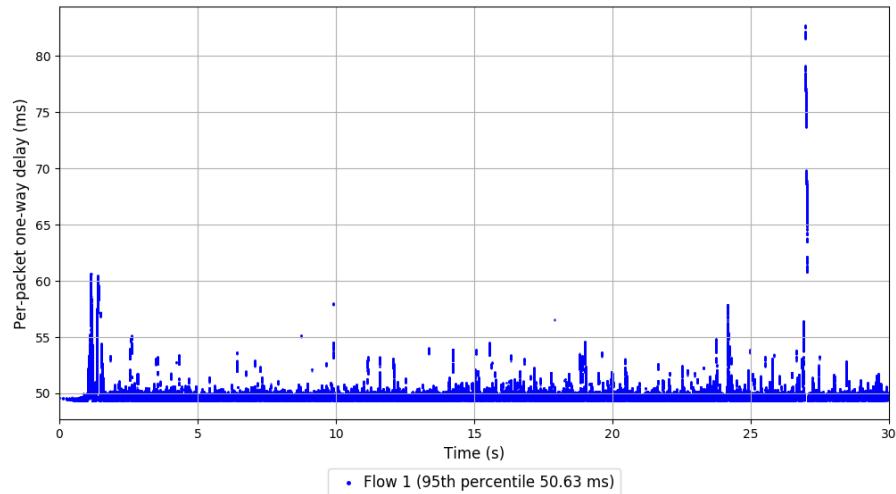
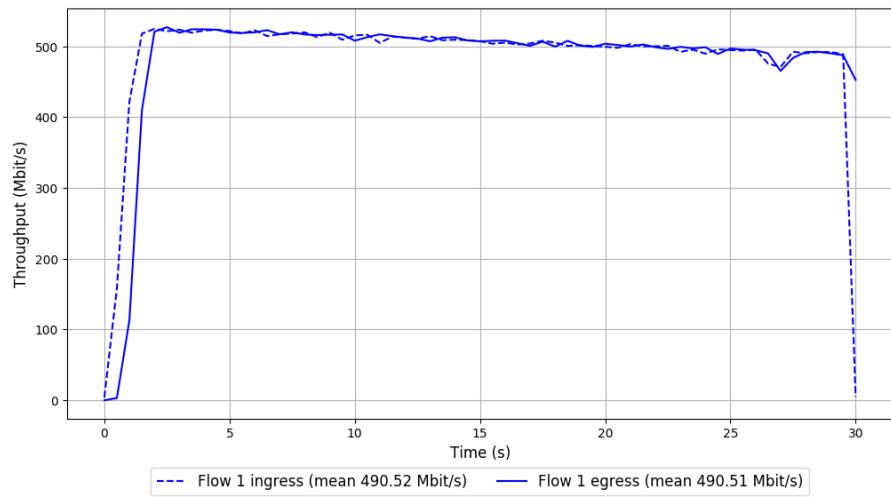


Run 3: Statistics of TCP Vegas

```
Start at: 2019-10-03 18:37:13
End at: 2019-10-03 18:37:43
Local clock offset: -0.009 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-10-03 22:32:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 490.51 Mbit/s
95th percentile per-packet one-way delay: 50.630 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 490.51 Mbit/s
95th percentile per-packet one-way delay: 50.630 ms
Loss rate: 0.32%
```

Run 3: Report of TCP Vegas — Data Link

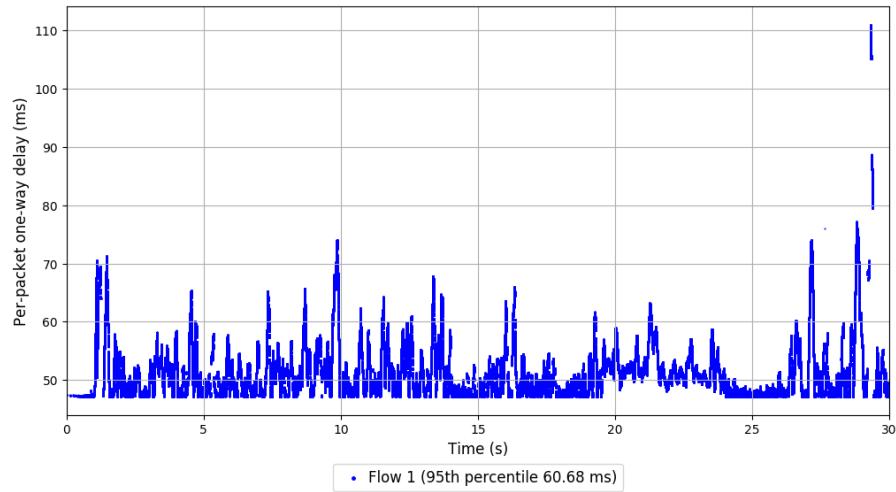
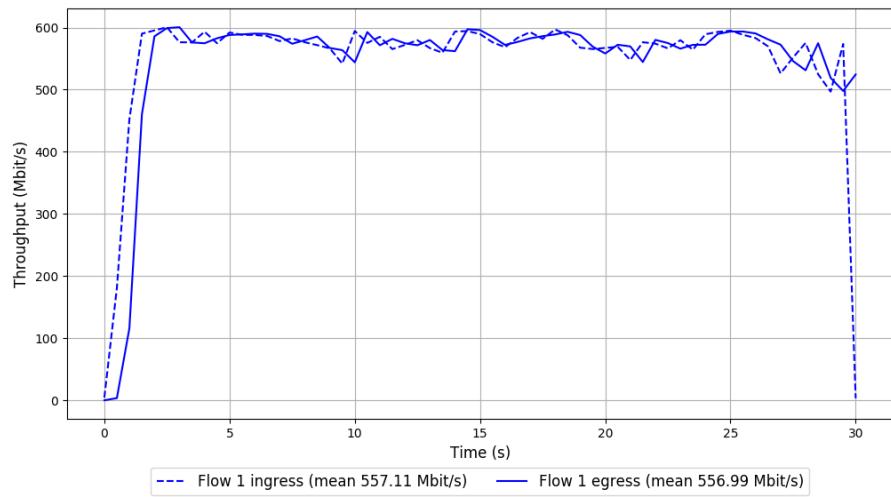


Run 4: Statistics of TCP Vegas

```
Start at: 2019-10-03 19:12:11
End at: 2019-10-03 19:12:41
Local clock offset: -0.016 ms
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.99 Mbit/s
95th percentile per-packet one-way delay: 60.681 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 556.99 Mbit/s
95th percentile per-packet one-way delay: 60.681 ms
Loss rate: 0.34%
```

Run 4: Report of TCP Vegas — Data Link

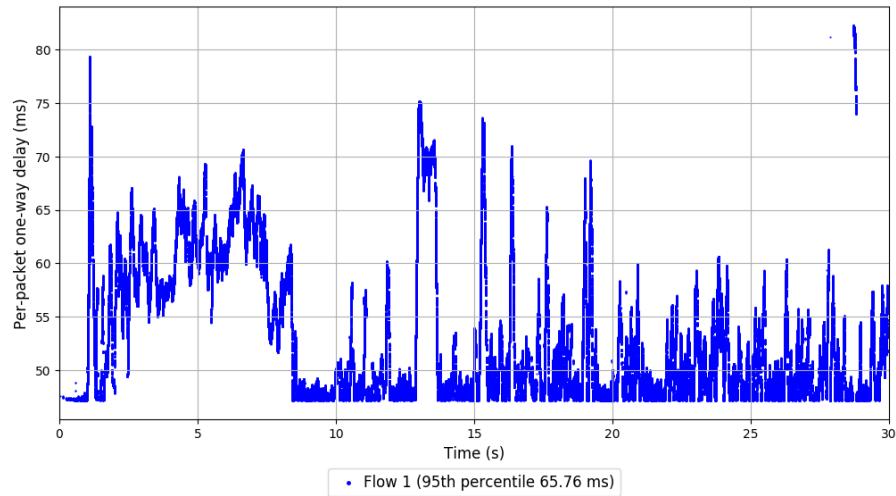
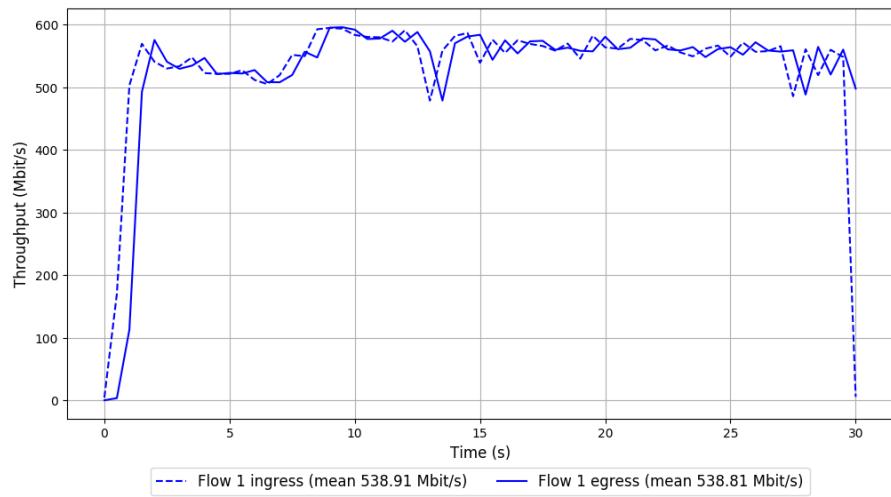


Run 5: Statistics of TCP Vegas

```
Start at: 2019-10-03 19:47:14
End at: 2019-10-03 19:47:44
Local clock offset: -0.055 ms
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.81 Mbit/s
95th percentile per-packet one-way delay: 65.761 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 538.81 Mbit/s
95th percentile per-packet one-way delay: 65.761 ms
Loss rate: 0.33%
```

Run 5: Report of TCP Vegas — Data Link

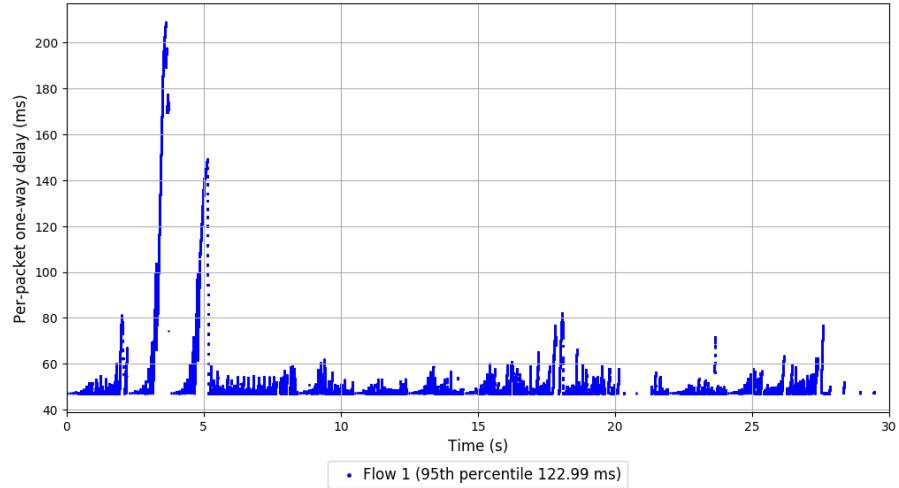
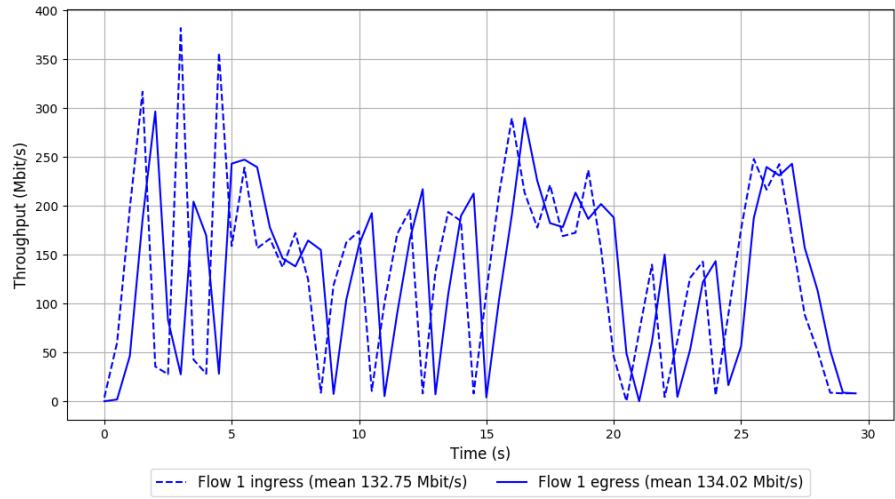


Run 1: Statistics of Verus

```
Start at: 2019-10-03 17:49:29
End at: 2019-10-03 17:49:59
Local clock offset: 0.001 ms
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.02 Mbit/s
95th percentile per-packet one-way delay: 122.990 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 134.02 Mbit/s
95th percentile per-packet one-way delay: 122.990 ms
Loss rate: 0.74%
```

Run 1: Report of Verus — Data Link

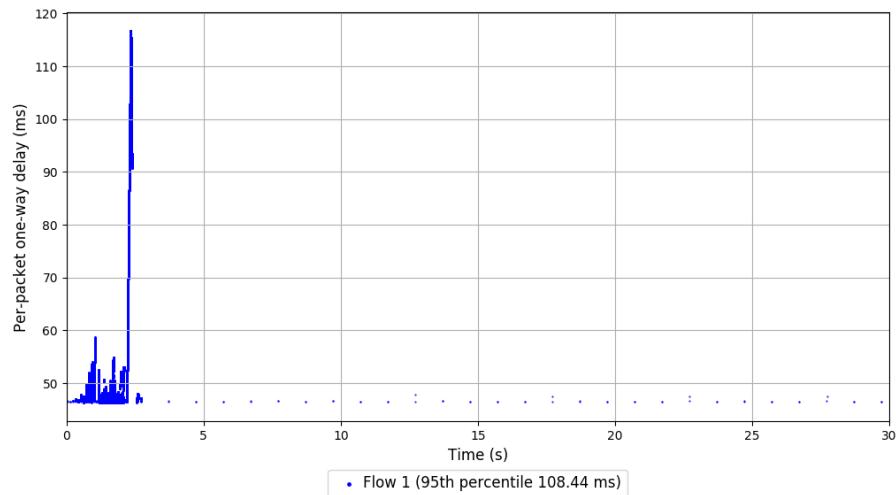
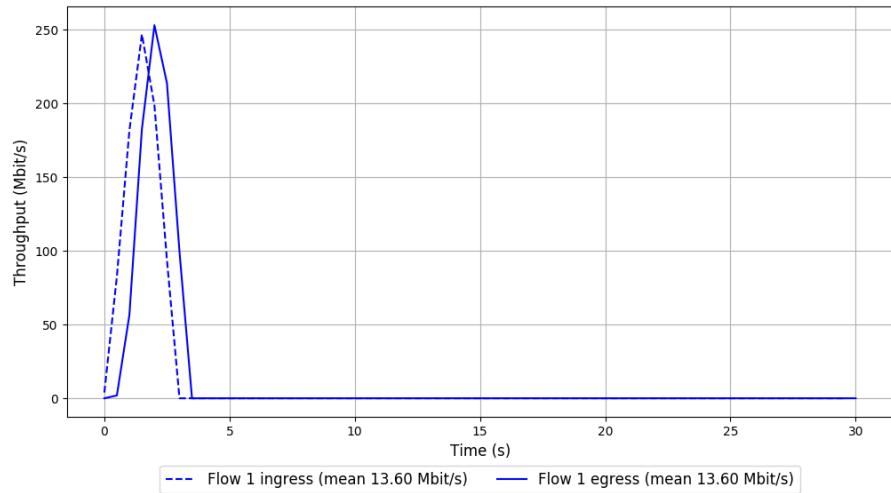


Run 2: Statistics of Verus

```
Start at: 2019-10-03 18:24:29
End at: 2019-10-03 18:24:59
Local clock offset: -0.037 ms
Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 108.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 108.439 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

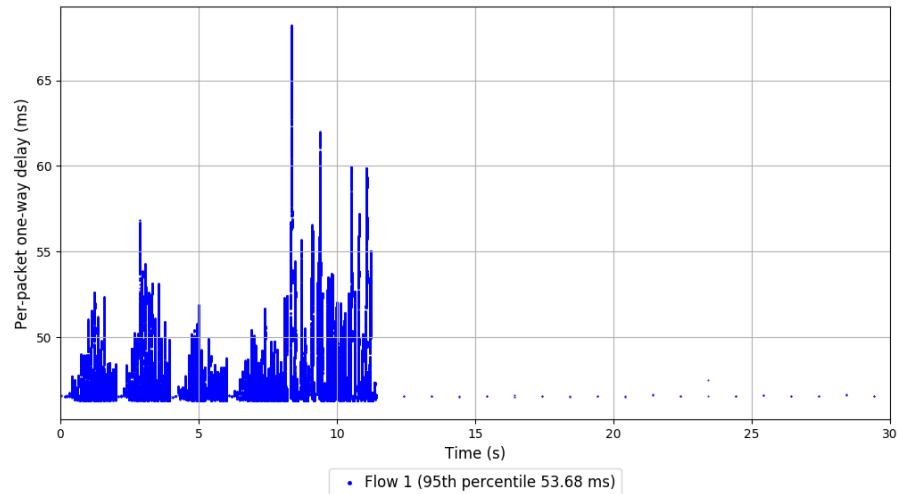
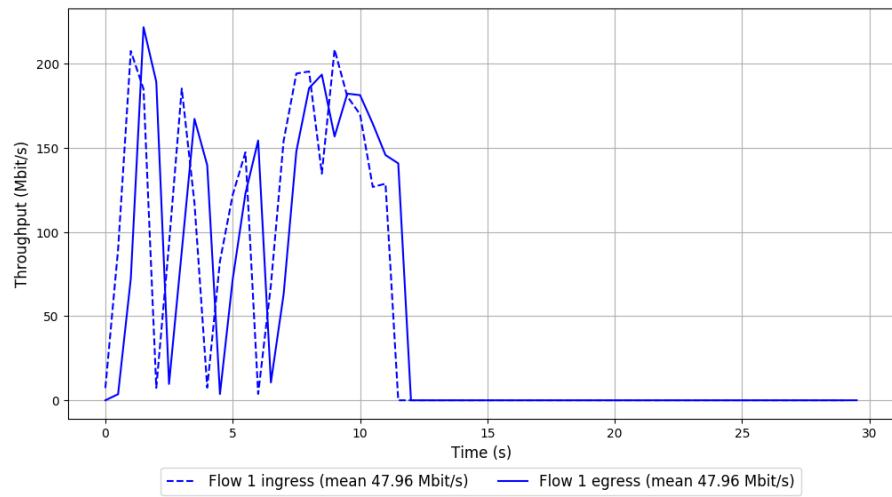


Run 3: Statistics of Verus

```
Start at: 2019-10-03 18:59:14
End at: 2019-10-03 18:59:44
Local clock offset: -0.03 ms
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.96 Mbit/s
95th percentile per-packet one-way delay: 53.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.96 Mbit/s
95th percentile per-packet one-way delay: 53.678 ms
Loss rate: 0.00%
```

Run 3: Report of Verus — Data Link

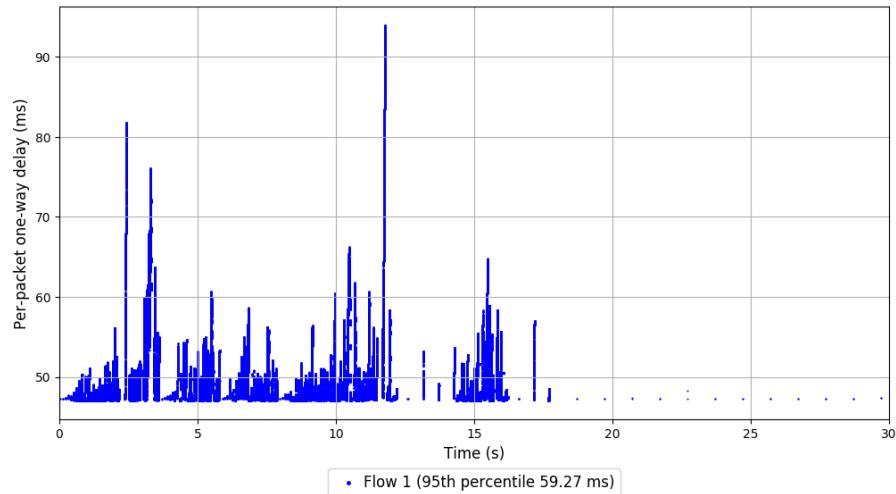
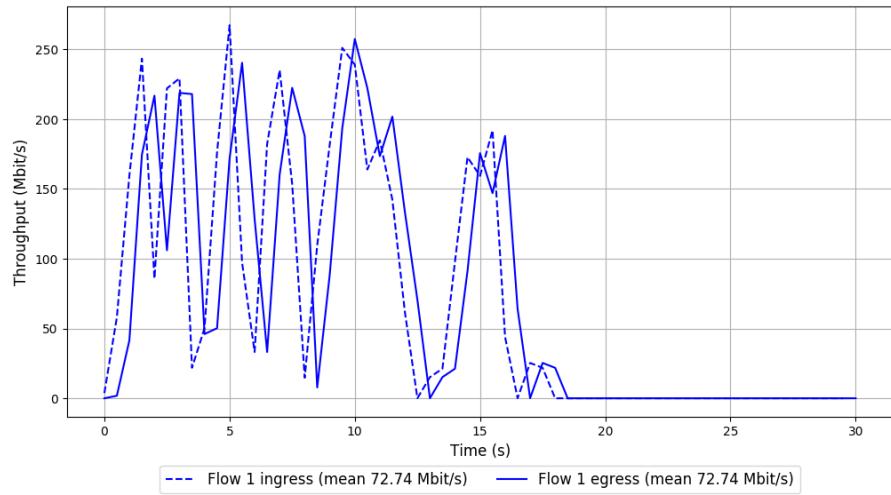


Run 4: Statistics of Verus

```
Start at: 2019-10-03 19:34:13
End at: 2019-10-03 19:34:43
Local clock offset: -0.002 ms
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 59.270 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.74 Mbit/s
95th percentile per-packet one-way delay: 59.270 ms
Loss rate: 0.00%
```

Run 4: Report of Verus — Data Link

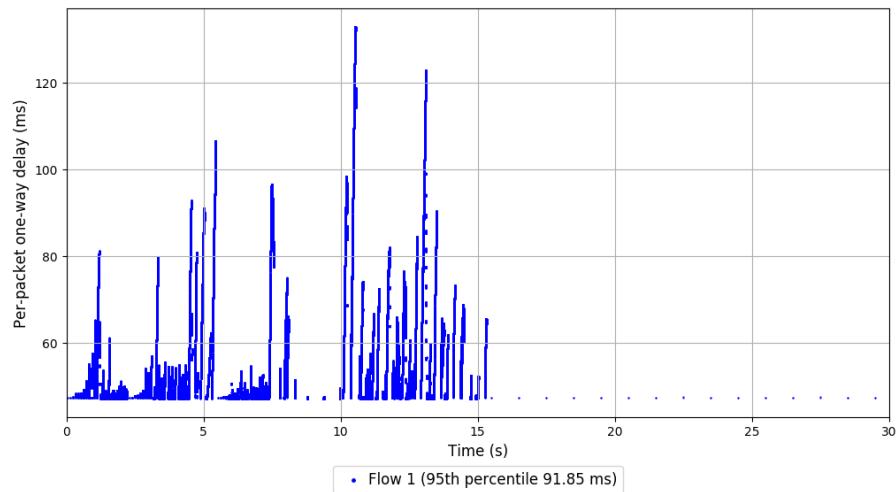
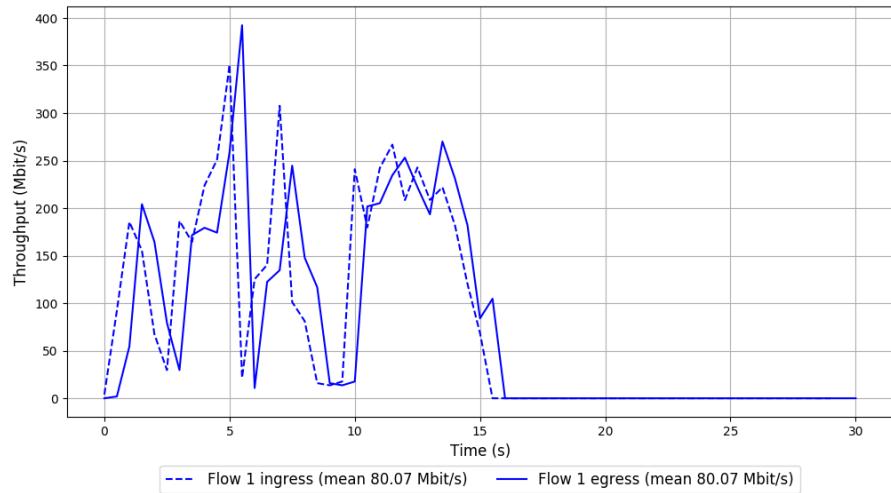


Run 5: Statistics of Verus

```
Start at: 2019-10-03 20:09:20
End at: 2019-10-03 20:09:50
Local clock offset: -0.076 ms
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 91.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.07 Mbit/s
95th percentile per-packet one-way delay: 91.847 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link

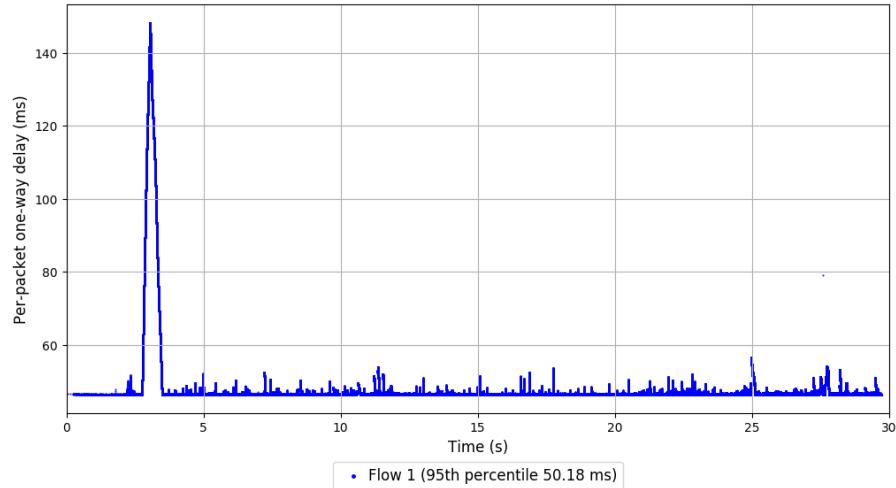
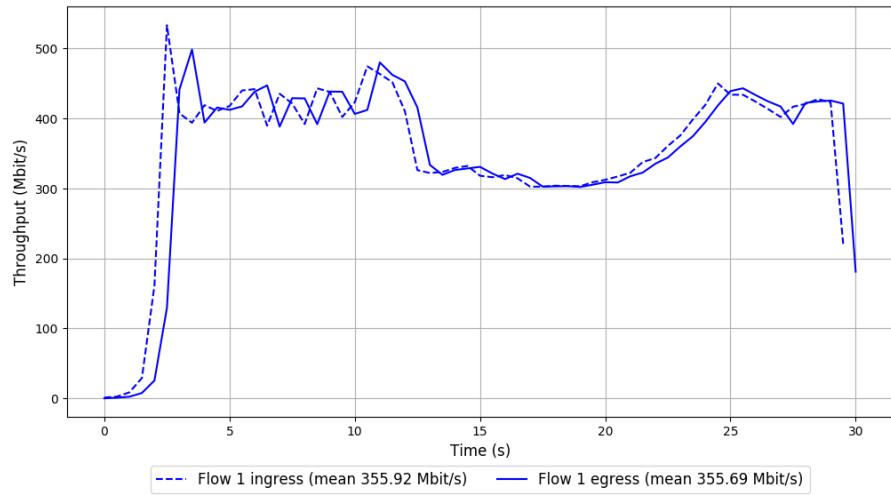


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-10-03 17:43:46
End at: 2019-10-03 17:44:16
Local clock offset: 0.022 ms
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 355.69 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 355.69 Mbit/s
95th percentile per-packet one-way delay: 50.176 ms
Loss rate: 0.38%
```

Run 1: Report of PCC-Vivace — Data Link

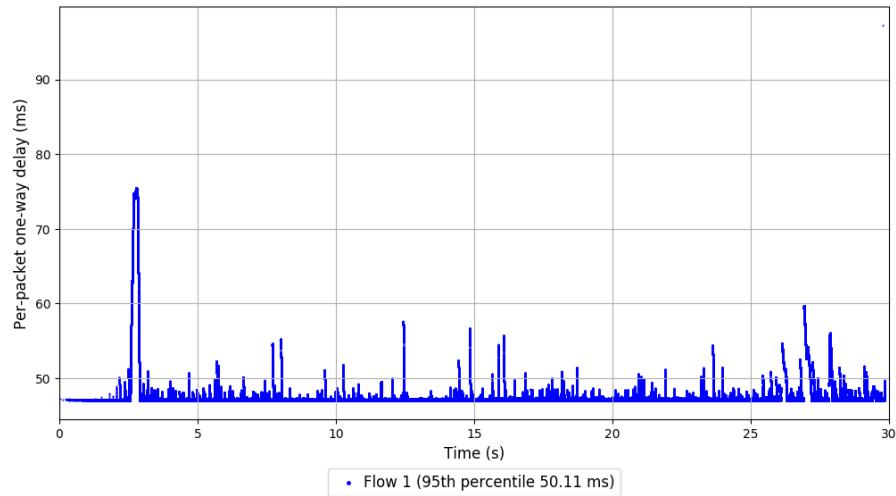
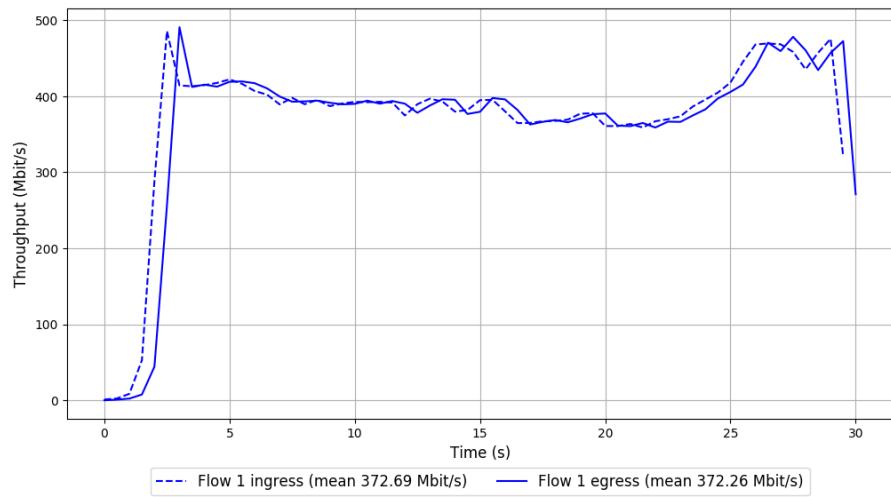


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-10-03 18:18:45
End at: 2019-10-03 18:19:15
Local clock offset: -0.055 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.26 Mbit/s
95th percentile per-packet one-way delay: 50.113 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 372.26 Mbit/s
95th percentile per-packet one-way delay: 50.113 ms
Loss rate: 0.43%
```

Run 2: Report of PCC-Vivace — Data Link

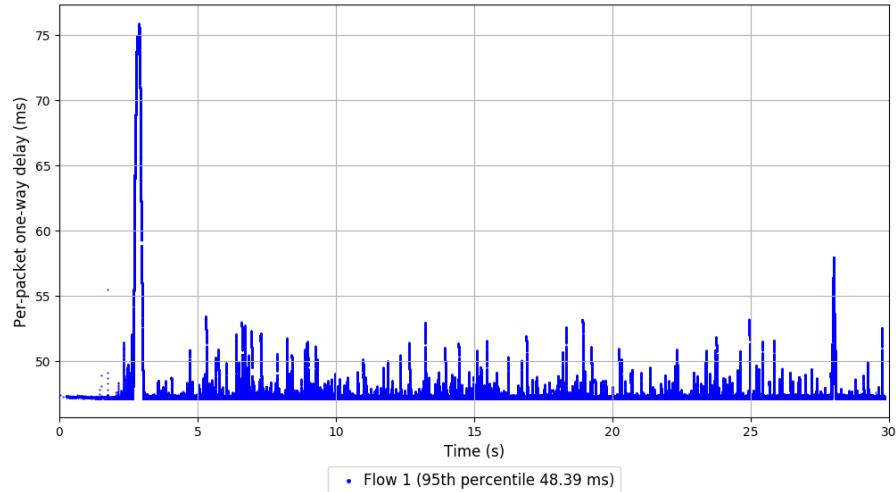
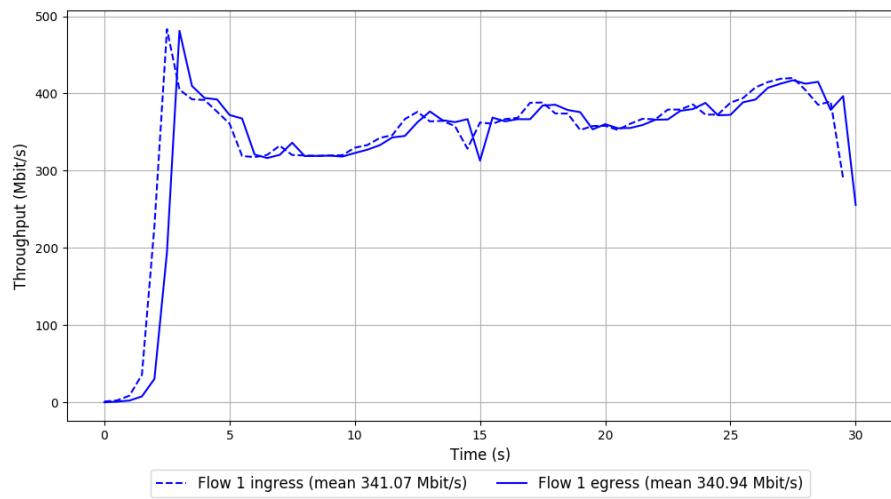


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-10-03 18:53:27
End at: 2019-10-03 18:53:57
Local clock offset: -0.026 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.94 Mbit/s
95th percentile per-packet one-way delay: 48.392 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 340.94 Mbit/s
95th percentile per-packet one-way delay: 48.392 ms
Loss rate: 0.35%
```

Run 3: Report of PCC-Vivace — Data Link

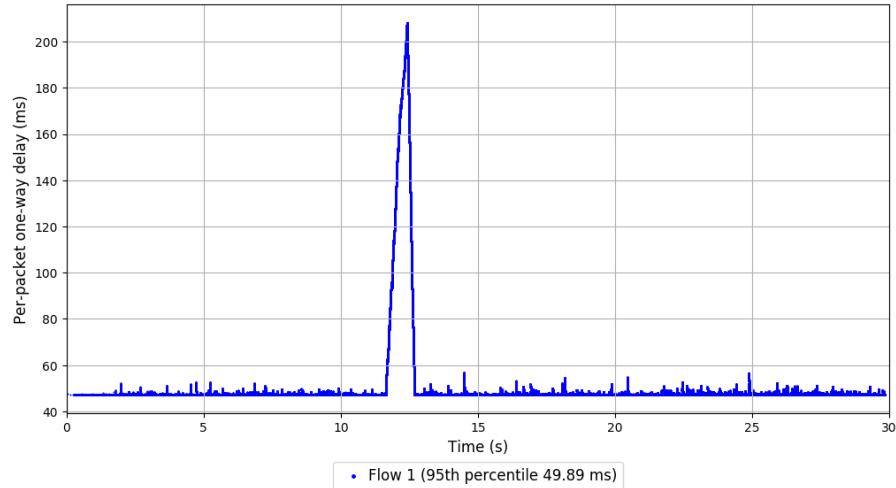
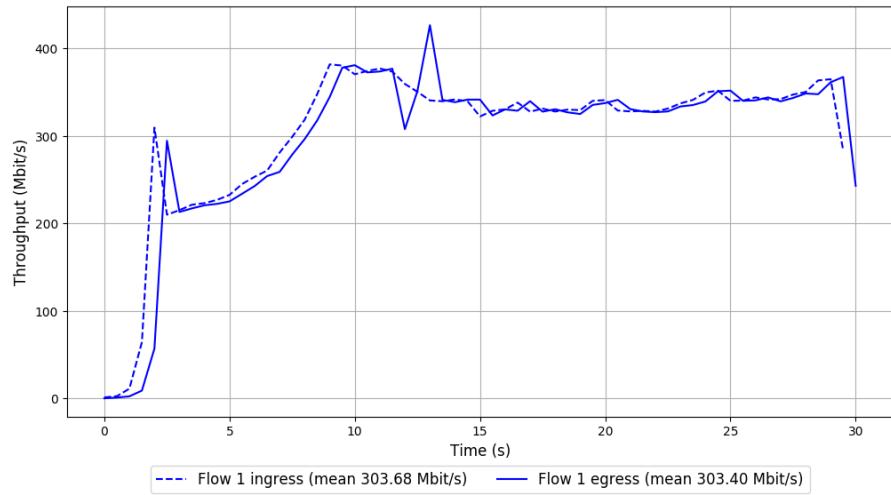


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-10-03 19:28:26
End at: 2019-10-03 19:28:56
Local clock offset: 0.02 ms
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-10-03 22:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 303.40 Mbit/s
95th percentile per-packet one-way delay: 49.890 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 303.40 Mbit/s
95th percentile per-packet one-way delay: 49.890 ms
Loss rate: 0.41%
```

Run 4: Report of PCC-Vivace — Data Link

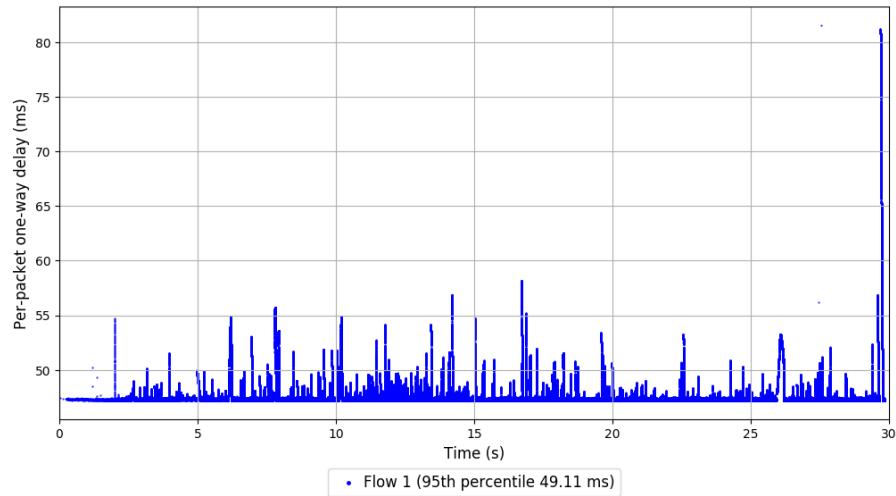
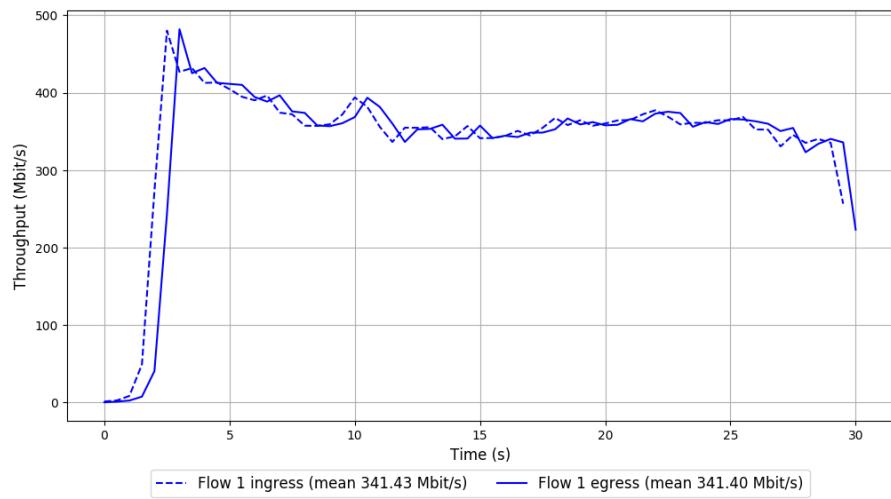


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-10-03 20:03:30
End at: 2019-10-03 20:04:00
Local clock offset: -0.045 ms
Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-10-03 22:37:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.40 Mbit/s
95th percentile per-packet one-way delay: 49.113 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 341.40 Mbit/s
95th percentile per-packet one-way delay: 49.113 ms
Loss rate: 0.32%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

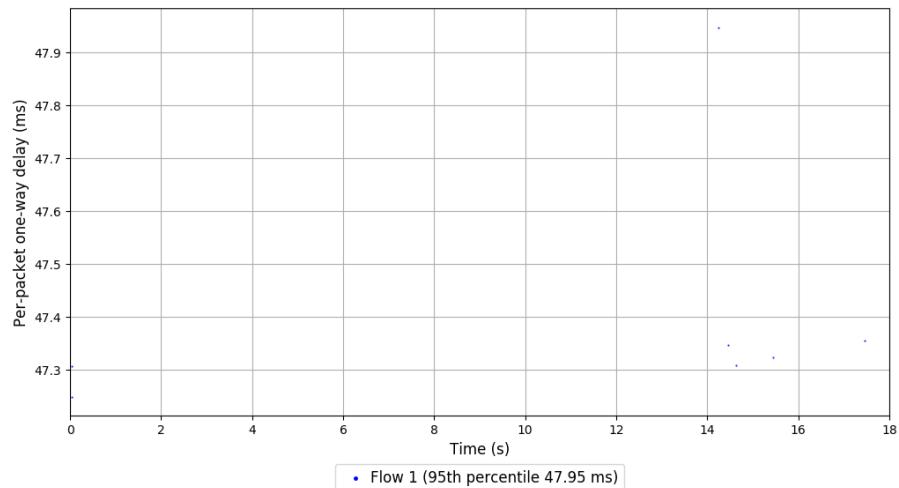
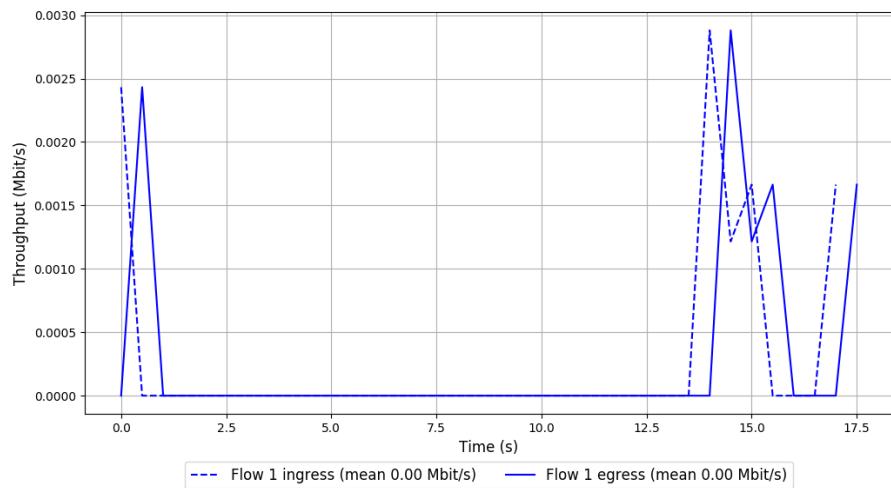
Start at: 2019-10-03 17:52:25

End at: 2019-10-03 17:52:55

Local clock offset: 0.046 ms

Remote clock offset: -0.004 ms

Run 1: Report of WebRTC media — Data Link

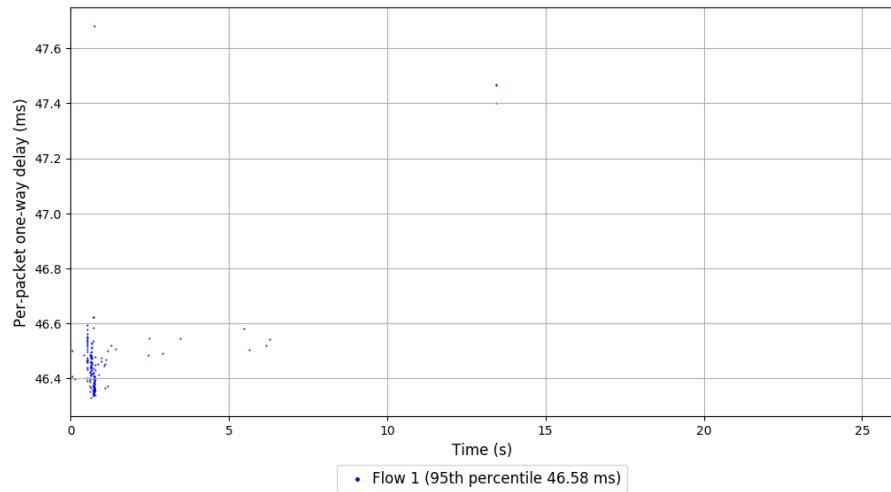
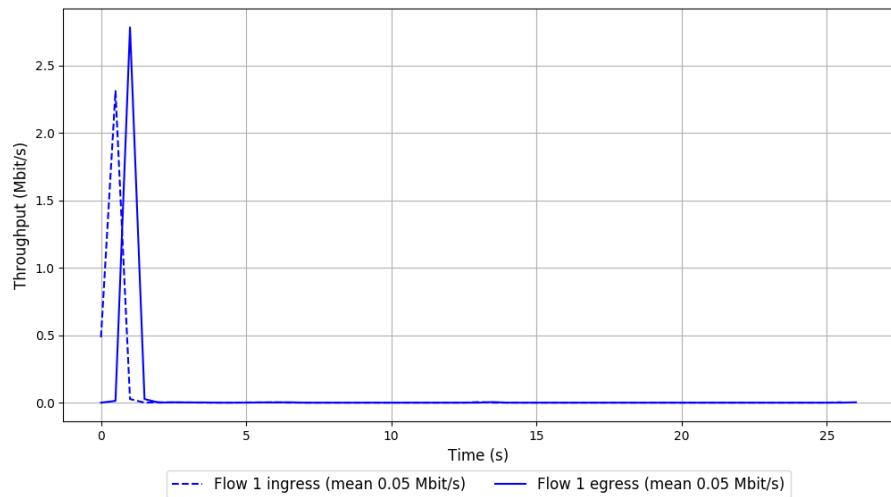


Run 2: Statistics of WebRTC media

```
Start at: 2019-10-03 18:27:14
End at: 2019-10-03 18:27:44
Local clock offset: -0.049 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-10-03 22:37:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 46.583 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

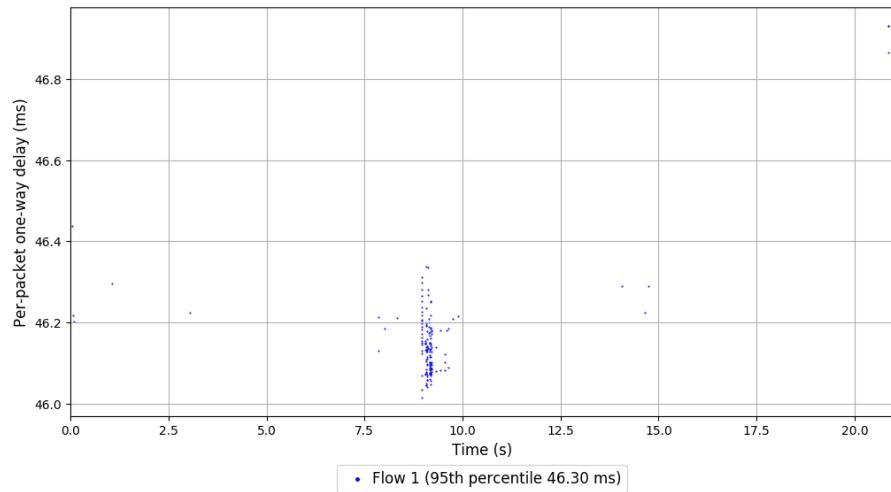
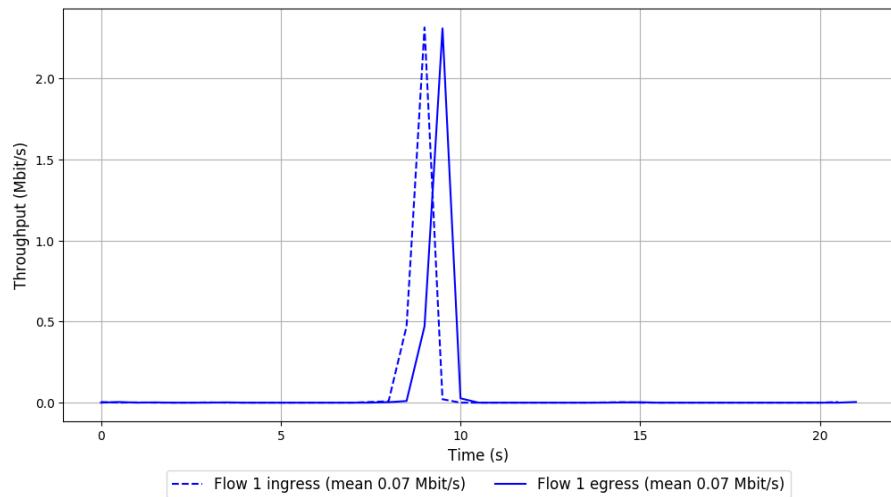
Start at: 2019-10-03 19:02:02

End at: 2019-10-03 19:02:32

Local clock offset: -0.385 ms

Remote clock offset: -0.102 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

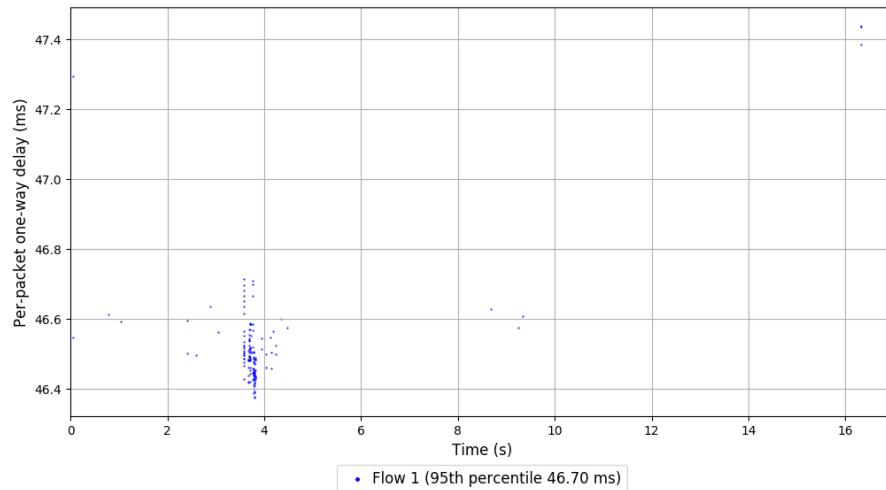
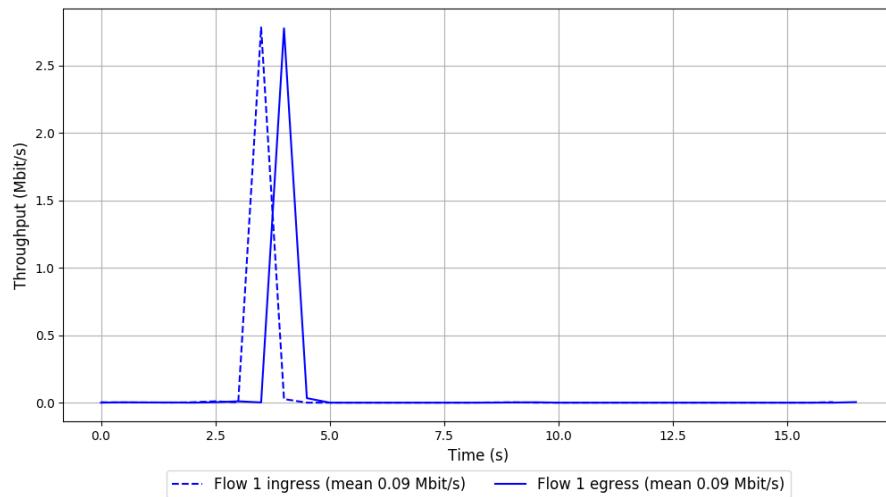
Start at: 2019-10-03 19:37:03

End at: 2019-10-03 19:37:33

Local clock offset: 0.02 ms

Remote clock offset: -0.111 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-10-03 20:12:11
End at: 2019-10-03 20:12:41
Local clock offset: -0.066 ms
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-10-03 22:37:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 47.554 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

